BIOCHIMICA et BIOPHYSICA ACTA

AUTHOR INDEX

VOLUMES 101-149

EDITORIAL BOARD

E. Antonini (Rome)
H. R. V. Arnstein (London)
A. D. Bangham (Babraham)
H. A. Barker (Berkeley)
M. L. Birnstiel (Edinburgh)
R. L. Blakley (Canberra)
L. Bogorad (Cambridge, Mass.)
L. Bosch (Leiden)
J. Brachet (Brussels)
R. O. Brady (Bethesda)
A. E. Braunstein (Moscow)
H. Breuer (Bonn)
D. H. Brown (St. Louis)
P. N. Campbell (Leeds)
H. Chantrenne (Brussels)
E. Chargaff (New York)
J. A. Cohen (Rijswijk)
R. D. Cole (Berkeley)
C. F. Cori (Boston)
F. L. Crane (Lafayette)
R. K. Crane (New Brunswick)
P. Desnuelle (Marseilles)
E. Diczfalusy (Stockholm)
S. Ebashi (Tokyo)
A. Ehrenberg (Stockholm)
A. Engström (Stockholm)
L. Ernster (Stockholm)
E. F. Gale (Cambridge)
G. A. Gilbert (Birmingham)
F. Gros (Paris)
M. Gruber (Groningen)
M. Grunberg-Manago (Paris)
D. J. Hanahan (Tucson)
O. Hayaishi (Kyoto)
P. J. Heald (Glasgow)
R. W. Holley (San Diego)
V. Jagannathan (Poona)
A. Katchalsky (Rehovoth)
M. Kates (Ottawa)
A. Kepes (Paris)
M. Klingenberg (Munich)
H. L. Kornberg (Leicester)
D. E. Koshland (Berkeley)
M. Kotani (Osaka)
H. A. Krebs (Oxford)
J. Larner (Minneapolis)
L. F. Leloir (Buenos Aires)
W. R. Loewenstein (New York)
F. Lynen (Munich)
V. Massey (Ann Arbor)
A. Meister (New York)
A. Monroy (Palermo)
H. N. Munro (Cambridge, Mass.)
D. M. Needham (Cambridge)
A. Neuberger (London)
H. Neurath (Seattle)
J. M. Olson (Upton)
A. I. Oparin (Moscow)
L. E. Orgel (San Diego)
M. Ottesen (Copenhagen)
L. Packer (Berkeley)
D. F. Parsons (Buffalo)
R. H. Pritchard (Leicester)
D. J. Prockop (Philadelphia)
G. N. Ramachandran (Madras)
H. Rasmussen (Philadelphia)
J. Roche (Paris)
D. Rosen (London)
C. Sadron (Orléans)
G. Schatz (Ithaca)
G. Schramm (Tübingen)
M. Sela (Rehovoth)
P. Siekevitz (New York)
J. Sjövall (Stockholm)
E. C. Slater (Amsterdam)
J. D. Smith (Cambridge)
W. Stoeckenius (San Francisco)
P. Strittmatter (Hartford)
J. M. Tager (Amsterdam)
J. B. Thomas (Utrecht)
T. E. Thompson (Charlottesville)
A. W. K. Tiselius (Uppsala)
H. H. Ussing (Copenhagen)
P. R. Vagelos (St. Louis)
L. L. M. Van Deenen (Utrecht)
K. E. Van Holde (Corvallis)
M. V. Volkenstein (Moscow)
P. H. Von Hippel (Eugene)
E. C. Webb (Brisbane)
H. H. Weber (Heidelberg)
C. Weissmann (Zürich)
J. S. C. Wessels (Eindhoven)
R. Whittam (Leicester)
R. J. P. Williams (Oxford)
T. S. Work (London)
R. Wurmser (Paris)
H. G. Zachau (Munich)

ELSEVIER PUBLISHING COMPANY

AMSTERDAM

PUBLISHER'S NOTE

This issue collects under one cover the author indexes of Volumes 101 to 149 inclusive of Biochimica et Biophysica Acta. According to the editorial practice of this journal the titles of the papers are mentioned under the names of the first authors only.

In each entry, the volume number is placed between parentheses before the page number. The correspondence between volume number and year of publication is indicated as follows:

Vol. No.	Year
101–111	1965
112–130	1966
131–149	1967

A

Aakvaag, A.
— and Eik-Nes, K.B.
Metabolism in vivo of steroids in the canine ovary (111)273;
Metabolism in vitro of steroids in the canine ovary (111)286
Aalund, O.
—, Rendel, J. and Freedland, R.A.
Isolation and characterization of ovine serum alkaline phosphatases (110)113
Aarli, J., see Schultz-Haudt, S.D.
Aasa, R., see Malmström, B.G.
Abbott, M.T.
—, Schandl, E.K., Lee, R.F., Parker, T.S. and Midgett, R.J.
Cofactor requirements of thymine 7-hydroxylase (132)525
Abdel-Latif, A.A.
A simple method for isolation of nerve-ending particles from rat brain (121)403
Abe, H., see Koizumi, T.
Abeles, R.H., see Cardinale, G.J.
Abelin, G.
—, Rous, S. et Favarger, P.
Incorporation du [1-^{14}C]-, [6-^{14}C]-, [1-^{3}H]- et [6-^{3}H]glucose et du [1-^{14}C]- et [2-^{3}H]-glycérol dans différents acides gras chez la souris intacte (125)237
Abood, L.G.
—, Kurahasi, K., Brunngraber, E. and Koketsu, K.
Biochemical analysis of isolated bullfrog sarcolemma (112)330
—, Kurahasi, K. and Perez del Cerro, M.
Biochemical studies on isolated nerve endings and other particulates of bullfrog brain (136)521
—, see Rogeness, G.A.
Abraham, S., see Bartley, J.C.; see Moretti, R.L.; see Sabine, J.R.
Abrahams, H.E., see Robinson, D.
Abrahamson, E.W., see Erhardt, F.; see Ostroy, S.E.
Abzug, S., see Bachrach, U.
Acevedo, H.F.
— and Goldzieher, J.W.
Metabolism of [4-^{14}C]progesterone by hypertrophic and carcinomatous human prostate tissue (111)294
Acher, R.
—, Chauvet, J., Chauvet, M.T. et Crepy, D.
Phylogénie des peptides neurohypophysaires: Isolement d'une nouvelle hormone, la glumitocine preśente chez un poisson cartilagineux, la raie (107)393
—, see Chauvet, J.
Ackerman, D.R., see Ressler, N.
Ackermann, W.W., see Sokol, F.
Adachi, K.
—, Iwayama, Y., Tanioka, H. and Takeda, Y.
Purification and properties of homogentisate oxygenase from Pseudomonas fluorescens (118)88
Adachi, O., see Muraoka, S.
Adamič, Š.
Action of acetylcholine on potassium permeability on denervated rat diaphragm (102)442
—, see Bihler, I.
Adams, A., see Downing, M.
Adams, E., see Aronson, L.D.; see Fujimoto, D.
Adams, G.A., see Kates, M.
Adams, J.B.
Enzymatic synthesis of steroid sulphates. V. On the binding of estrogens to estrogen sulphotransferase (146)522
— and Chulavatnatol, M.
Enzymatic synthesis of steroid sulphates. IV. The nature of the two forms of estrogen sulphotransferase of bovine adrenals (146)509
— and Poulos, A.
Enzymatic synthesis of steroid sulphates. III. Isolation and properties of estrogen sulphotransferase of bovine adrenal glands (146)493
Adams, L.C., see Field, R.A.
Adams, L.S., see Durham, N.N.
Adams, P.H., see Forte, J.G.
Adams, R.B., see Buckhold, B.
Adamson, L.F.
— and Anast, C.S.
Amino acid, potassium and sulfate transport and incorporation by embryonic chick cartilage: The mechanism of the stimulatory effects of serum (121)10
—, Langeluttig, S.G. and Anast, C.S.
Amino acid transport in embryonic chick bone and rat costal cartilage (115)345;
Inhibition by puromycin of amino acid transport by embryonic chick bone (115)355
Adelstein, S.J.
— and Kohn, H.I.
Failure of X-rays and actinomycin D to prevent the response of renal and hepatic thymidylate kinase to thymidine treatment in vivo (138)163
Adie, P.A.
— and Davidson, C.K.
The distribution of atropinesterase and homatropinesterase in rabbit and guinea-pig liver cell fractions and sera (139)180
Adlerkreutz, H., see Luukkainen, T.
Adolfsson, S.
—, Arvill, A. and Ahrén, K.
Stimulation by insulin of accumulation and incorporation into protein of L-[^{3}H]proline in the intact levator and muscle from the rat (135)176
Adye, J.C.
— and Gots, J.S.
Further studies on genetically altered purine nucleotide pyrophosphorylases of Salmonella (118)344
Affonso, O.R., see Mitidieri, E.
Agarwala, S.C., see Kapoor, N.K.
Agrawal, B.B.L.

Agrawal, B.B.L.
— and Goldstein, I.J.
Physical and chemical characterizations of concanavalin A, the hemagglutinin from jack bean (Canavalia ensiformis) (133)376;
Protein–carbohydrate interaction. VI. Isolation of concanavalin A by specific adsorption on cross-linked dextran gels (147)262
Agrawal, H.C.
—, Glisson, S.N. and Himwich, W.A.
Changes in monoamines of rat brain during postnatal ontogeny (130)511
Agus, S.G.
—, Cox, R.P. and Griffin, M.J.
Inhibition of alkaline phosphatase by cysteine and its analogues (118)363
Ahmed, K.
— and Judah, J.D.
Identification of active phosphoprotein in a cation-activated ATPase (104)112;
Sodium binding by rat brain lipoprotein (112)58
—, Judah, J.D. and Scholefield, P.G.
Interaction of Na^+ and K^+ with a cation-dependent ATPase system from rat brain (120)351
Ahrén, K., see Adolfsson, S.
Aihara, M.S., see Yamamoto, H.Y.
Ailam, G., see Katchalsky, A.
Ajl, S.J., see Montie, T.C.; see Wegener, W.S.
Akaboshi, M.
—, Maeda, T. and Waki, A.
Determination of the nucleic acid content of protozoa by activation analysis (138)596;
Chemical form of ^{32}P-compounds after nuclear recoil reactions in neutron-irradiated nucleotides and DNA (142)285
Akagi, K., see Katagiri, M.
Akamatsu, N.
— and Arai, T.
On the origin of N-methyl-L-glucosamine in the molecule of streptomycin (141)650
Akamatsu, Y., see Kanemasa, Y.
Aki, K.
—, Takagi, T., Isemura, T. and Yamano, T.
Optical rotatory dispersion and circular dichroism of D-amino-acid oxidase (122)193
—, see Miyake, Y.
Akino, M., see Matsubara, M.
Akiyama, M.
—, Minari, O. and Sakagami, T.
Cholesterol esterification in rat liver cell sap (137)525
Akoyunoglou, G.
—, Argyroudi-Akoyunoglou, J.H. and Methenitou, H.
Studies on the active site of the enzyme ribulosediphosphate carboxylase (132)481
Alaupovic, P., see Olson, A.C.
Albertsson, P.-Å.
Partition studies on nucleic acids. I. Influence of electrolytes, polymer concentration and nucleic acid conformation on the partition in the dextran–polyethylene glycol system (103)1
—, see Rudin, L.
Albertsson, R.A., see Öberg, B.
Alcaide, A.
— and Municio, A.M.
Inhibition and uncoupling of photophosphorylation (131)195
Alderweireldt, F.
—, Jadot, J., Casimir, J. et Loffet, A.
Spectre de résonance magnétique nucléaire des deux diastéréoisomères de l'acide γ-hydroxy-γ-méthylglutamique (136)89
Aleem, M.I.H.
Path of carbon and assimilatory power in chemosynthetic bacteria. I. Nitrobacter agilis (107)14;
Generation of reducing power in chemosynthesis. II. Energy-linked reduction of pyridine nucleotides in the chemoautotroph, Nitrosomonas europaea (113)216;
Generation of reducing power in chemosynthesis. IV. Energy-linked reduction of pyridine nucleotides by succinate in Thiobacillus novellus (128)1
Alegria, A.H.
Hydroxymethylation of pyrimidine mononucleotides with formaldehyde (149)317
Alexander, C.S., see Dickie, N.
Alexander, G.J., see Alexander, R.B.
Alexander, J.K., see Sheth, K.
Alexander, P., see Baker, A.; see El-Aasser, A.A.
Alexander, R.B.
—, Brand, F.C. and Alexander, G.J.
Effect of pentamethylenetetrazol on structure and enzyme activity of yeast. I. Changes in mitochondria and in sterol levels (111)318
Alexiev, B.V., see Shipolini, R.
Alfassi, Z.B., see Blauer, G.
Alford, J.A., see Mencher, J.R.
Alifano, A., see Quagliariello, E.
Allan, P.W.
—, Schnebli, H.P. and Bennett, Jr., L.L.
Conversion of 6-mercaptopurine and 6-mercaptopurine ribonucleoside to 6-methylmercaptopurine ribonucleotide in human epidermoid carcinoma No. 2 cells in culture (114)647
Allaway, E., see Epstein, H.T.
Allen, D.W.
Actinomycin D inhibition of avian myeloblastosis virus production by chick-embryo fibroblasts (114)606;
Zone electrophoresis of the proteins of avian myeloblastosis virus (133)180
Allen, M.B., see Jeffrey, S.W.
Allen, R.C., see Popp, R.A.
Allende, C.C., see Gatica, M.
Allende, J.E., see Gatica, M.
Allin, W.D.
— and Matuk, Y.
The effect of polyhydric alcohols on the determination of inorganic phosphorus (127)521
Allison, A.C., see Lundin, L.G.
Allison, J.L., see O'Brien, R.L.
Allman, D.W., see Hicks, S.E.
Almin, K.E.
— and Eriksson, K.E.
Enzymic degradation of polymers. I. Viscometric method for the determination of enzymic activity (139)238
—, Eriksson, K.E. and Janson, C.
Enzymic degradation of polymers. II. Viscometric determination of cellulase activity in absolute terms (139)248
Alpern, R.J., see Irwin, R.J.
Alpers, D.H.

— and Isselbacher, K.J.
The effect of carbon tetrachloride on rat liver lysosomes (137)33
Altman, M.
—, Oka, H. and Field, J.B.
Effect of thyroid stimulating hormone, acetylcholine, epinephrine, serotonin and synkavite on ^{32}P incorporation into phospholipids in dog thyroid slices (116)586
Altschul, A.M., see Jendrek, J.P.; see Ory, R.L.; see St. Angelo, A.J.
Altschul, R., see Vilallonga, F.
Alvarado, F.
The relationship between Na^+ and the active transport of arbutin in the small intestine (109)478;
D-Xylose active transport in the hamster small intestine (112)292;
Hypothesis for the interaction of phlorizin and phloretin with membrane carriers for sugars (135)483
Amelunxen, R.E.
Crystallization of thermostable glyceraldehyde-3-phosphate dehydrogenase from Bacillus stearothermophilus (122)175;
Some chemical and physical properties of thermostable glyceraldehyde-3-phosphate dehydrogenase from Bacillus stearothermophilus (139)24
— and Carr, D.O.
The crystallization and properties of glyceraldehyde-3-phosphate dehydrogenase isolated from rabbit muscle by a simplified procedure (132)256
—, Carr, D.O. and Grisolia, S.
Influence of substrate-induced enzymic inactivation on the sulfhydryl content of glyceraldehyde-3-phosphate dehydrogenase (113)184
—, see Carr, D.O.
Amesz, J.
— and Fork, D.C.
Quenching of chlorophyll fluorescence by quinones in algae and chloroplasts (143)97
— and Vredenberg, W.J.
Near infrared action spectra of fluorescence, cytochrome oxidation and shift in carotenoid absorption in purple bacteria (126)254
—, see Fork, D.C.
Ammann, E.C.B.
— and Lynch, V.H.
Purine metabolism by unicellular algae. III. The photochemical degradation of uric acid by chlorophyll (120)181
— and Reed, L.L.
Metabolism of nitrogen compounds by Hydrogenomonas eutropha. I. Utilization of uric acid, allantoin, hippuric acid, and creatinine (141)135
Amos, H., see Soeiro, R.
Anagnoste, B., see Goldstein, M.
Anantha Samy, T.S., see Papkoff, H.; see Permual, A.S.
Anast, C.S., see Adamson, L.F.
Anderer, F.A.
— and Schlumberger, H.D.
Cross-reactions of antisera against the terminal amino acid and dipeptide of tobacco mosaic virus (115)222
—, Schlumberger, H.D. and Frank, H.
A serological screening method for the detection of free C-terminal amino acids in virus coat proteins (140)80
Anderson, B.M.
—, Reynolds, M.L. and Anderson, C.D.
Nitrogen base inhibition of yeast alcohol dehydrogenase (113)235
Anderson, C.D., see Anderson, B.M.
Anderson, G., see Greaves, M.P.
Anderson, J.M.
— and Boardman, N.K.
Fractionation of the photochemical systems of photosynthesis. I. Chlorophyll contents and photochemical activities of particles isolated from spinach chloroplasts (112)403
— and Vernon, L.P.
Digitonin incubation of spinach chloroplasts in Tris(hydroxymethyl) solutions of varying ionic strengths (143)363
—, see Boardman, N.K.
Anderson, J.R.
—, Pramer, D. and Davis, F.F.
Nucleic acid composition of Nitrosomonas europaea (108)155
— and Fuller, R.C.
The rapid appearance of glycolate during photosynthesis in Rhodospirillum rubrum (131)198
Anderson, P.J.
Oxidation of 3-deoxy-xylitol by L-iditol dehydrogenase (110)627
Anderson, R.L.
Oxidation of the geometric isomers of Δ^9-octadecenoic acid by rat-liver mitochondria (144)18
— and Coots, R.H.
The catabolism of the geometric isomers of uniformly ^{14}C-labeled Δ^9-octadecenoic acid and uniformly ^{14}C-labeled $\Delta^{9,12}$-octadecadienoic acid by the fasting rat (144)525
Andersson, L.-O.
Heterogeneity of bovine serum albumin (117)115
Ando, K.
—, Matsubara, H. and Okunuki, K.
Alkylation of cytochromes c. I. Properties of alkylated beef cytochrome c (118)240;
Alkylation of cytochromes c. II. Carboxymethylation of beef and human cytochromes c in the oxidized and reduced forms (118)256
—, Orii, Y., Takemori, S. and Okunuki, K.
Trinitrophenylation of beef heart cytochrome c in the oxidized and reduced forms (111)540
Ando, T.
A nuclease specific for heat-denatured DNA isolated from a product of Aspergillus oryzae (114)158
— and Suzuki, K.
The amino acid sequence of the second component of clupeine (121)427;
The amino acid sequence of the third component of clupeine (140)375
—, see Inoue, S.
André, J., see Lévy, M.
Andreoli, A.J., see Ogasawara, N.
Andreotti, R.E., see Kronman, M.J.; see Robbins, F.M.
Andrews, A.T. deB.
— and Herring, G.M.
Further studies on bone sialoprotein (101)239

Anfinsen, C.B., see Givol, D.; see Korenman, S.G.
Anfinsen, J., see Givol, D.
Angel, A.
— and Roncari, D.A.K.
The control of fatty acid esterification in a subcellular preparation of rat adipose tissue (137)464
Angeletti, P.U.
— and Angeletti, R.A.
Androgen-dependent esterase activity in the mouse submaxillary gland (136)187
—, Calissano, P., Chen, J.S. and Levi-Montalcini, R.
Multiple molecular forms of the nerve growth factor (147)180
—, Slavi, M.L., Capani, F. and Frati, L.
Granulocytosis-inducing factor from the mouse submaxillary gland (111)344
—, see Angeletti, R.A.
Angeletti, R.A.
—, Angeletti, P.U. and Calissano, P.
Testosterone induction of estero-proteolytic activity in the mouse submaxillary gland (139)372
—, see Angeletti, P.U.
Anghileri, L.J.
Influence of bilirubin on the binding of 3,4-benzpyrene by blood proteins (136)388
Ankel, E., see Ankel, H.
Ankel, H.
—, Ankel E., Feingold, D.S. and Schutzbach, J.S.
Formation of UDP-D-xylose in algae (136)172
Anraku, Y., see Futai, M.
Ansell, G.B., see Horrocks, L.A.
Antonini, E.
—, Wyman, J., Bucci, E., Fronticelli, C., Brunori, M., Reichlin, M. and Rossi Fanelli, A.
Oxygen equilibrium of the hybrids of canine and human hemoglobin (104)160
—, see Chiancone, E.
Antonopoulos, C.A.
—, Engfeldt, B., Gardell, S., Hjertquist, S.-O. and Solheim, K.
Isolation and identification of the glycosaminoglycans from fracture callus (101)150
—, Fransson, L.-Å., Heinegård, D. and Gardell, S.
Chromatography of glycosaminoglycans on ECTEOLA-cellulose columns (148)158
Anwar, R.A.
— and Oda, G.
The biosynthesis of desmosine and isodesmosine. II. Incorporation of specifically labeled lysine into desmosine and isodesmosine (133)151
Aoyama, M.
—, Kurihara, K. and Shibata, K.
States of amino acid residues in proteins. VII. Hydrogen bonding of tyrosine residues in the insulin molecule (107)257
Apelgot, S.
—, Ekert, B. et Frilley, M.
Étude de l'autodécomposition de la thymidine tritiée conservée en solution aqueuse (103)503
Appleby, C.A.
A soluble haemoprotein P450 from nitrogen-fixing Rhizobium bacteroids (147)399
Arai, T., see Akamatsu, N.
Arbuckle, R., see Glauser, S.C.
Arcà, M.
—, Frontali, L., Sapora, O. and Tecce, G.
Lack of specificity of isoleucyl-tRNA synthetase: Evidence for anomalous charging of tRNA (145)284
—, Frontali, L. and Tecce, G.
Lack of specificity in formation of aminoacyl-sRNA as a possible source of coding errors (108)326
Arcos, J.C., see Bemis, J.A.
Ardelt, W., see Banga, I.
Arfin, S.M.
Asparagine synthesis in the chick embryo liver (136)233
Argus, M.F., see Bemis, J.A.
Argyroudi-Akoyunoglou, J.H., see Akoyunoglou, G.
Arima, K.
—, Yamaguchi, T. and Tamura, G.
Isolation of protoplast-bursting factor from pig pancreas (130)102
—, see Yamaguchi, T.; see Yamasaki, M.
Arimura, G.K., see Yunis, A.A.
Arion, V.J.
—, Mantieva, V.L. and Georgiev, G.P.
Metabolically stable and metabolically labile DNA-like RNA (138)436
Armentrout, S.A.
—, Mills, W.A. and Simmons, L.R.
Stimulation of polypeptide synthesis by artificial nucleoproteins (119)99
Armstrong, C.E.
—, Mackinlay, A.G., Hill, R.J. and Wake, R.G.
The action of rennin of κ-casein: The heterogeneity and origin of the soluble product (140)123
Armstrong, J.L., see Smith, K.D.
Armstrong, J. McD.
— and McKenzie, H.A.
A method for modification of carboxyl groups in proteins: Its application to the association of bovine β-lactoglobulin A (147)93
—, McKenzie, H.A. and Sawyer, W.H.
On the fractionation of β-lactoglobulin and α-lactalbumin (147)60
Armstrong, R.L.
— and Boezi, J.A.
Studies of Escherichia coli RNA–DNA complex (103)60
Arnesjö, B., see Schotz, M.C.
Arnold, M., see Hauser, G.
Arnold, W.N.
β-Fructofuranosidase from grape berries (110)134;
β-Fructofuranosidase from grape berries. II. Solubilization of a bound fraction (128)124;
β-Fructofuranosidase from grape berries. III. The identity of the soluble and bound fractions (128)196
Arnolds, W.J., see Thomas, J.B.
Arnon, D.I., see Bachofen, R.
Arnon, R., see Shapira, E.
Arnow, P., see Free, C.A.
Aronson, A., see Schwimmer, S.
Aronson, L.D.
—, Rosso, R.G. and Adams, E.
A constitutive aldolase for 4-hydroxy-2-ketoglutarate in soil bacteria (132)200

Arquilla, E.R., see Mercola, D.A.
Arrington, S., see Suelter, C.H.
Artman, M., see Silman, N.
Arvill, A., see Adolfsson, S.
Asada, Y., see Saito, K.
Asakura, T., see Toda, G.
Asano, A.
—, Imai, K. and Sato, R.
Oxidative phosphorylation in Micrococcus denitrificans. II. The properties of pyridine nucleotide transhydrogenase (143)477
—, see Imai, K.
Asano, K., see Hirashima, A.
Asatoor, A.M.
— and Simehoff, M.L.
Origin of urinary dimethylamine (111)384
Ashida, K., see Watari, H.
Ashman, D.F., see Price, T.D.
Ashton, F.M., see Penner, D.
Ashworth, J.M.
Studies on the ribosomes of the cellular slime molds (129)213
Askari, A.
— and Franklin, Jr., J.E.
Effects of monovalent cations and ATP on erythrocyte AMP (110)162
Askew, J., see Roth, J.S.
Atassi, M.Z., see Rosenthal, A.F.
Atherly, A.G.
— and Imsande, J.
Partial characterization of the protein labeled in a cell-free system from Bacillus cereus (145)491
Atherton, R.S.
—, Kemp, P. and Hawthorne, J.N.
Phosphoinositide inositolphosphohydrolase in guinea-pig intestinal mucosa (125)410
Atkinson, M.R.
—, Eckermann, G. and Stephenson, J.
Formation of 6-thioxanthosine 5'-phosphate from 6-mercaptopurine and from 6-thioxanthine in Ehrlich ascites-tumour cells (108)320
—, see Nicholls, R.G.
Atsmon, A.
— and Davis, R.P.
Mitochondrial respiration under conditions of varying osmolarity (131)221
Attardi, G., see Kabat, D.
Attridge, T.H.
— and Smith, H.
A phytochrome mediated increase in the level of phenylalanine ammonia-lyase activity in the terminal buds of Pisum sativum (148)805
Attwood, D.
— and Saunders, L.
The effects of some salts on the micelles in ultrasonically irradiated lecithin sols (116)108
—, Saunders, L., Gammack, D.B., De Haas, G.H. and Van Deenen, L.L.M.
The size and shape of micelles of some synthetic phospholipids in aqueous dispersions (102)301
Aubel-Sadron, G., see Ebel, J.-P.
Augenstein, L., see Bishai, F.
Augustin, H.W.
—, Kopperschläger, G., Steffen H. und Hofmann, E.
Hexokinase als begrenzender Faktor des anaeroben Glucoseverbrauches von Saccharomyces carlsbergensis (110)437
Augustinsson, K.B.
— and Henricson, B.
A genetically controlled esterase in rat plasma (124)323
Aumont, A., see Pries, C.
Auricchio, S., see Semenza, G.
Aurich, H.
—, Kleber, H.P. and Schöpp, W.D.
An inducible carnitine dehydrogenase from Pseudomonas aeruginosa (139)505
Austad, W.
—, Clamp, J.R., McCarthy, C.F. and Read, A.E.
Some observations on the metabolism of L-tryptophan (148)84
Autor, A.P., see Gutman, A.
Avaeva, S.M., see Stepanov, V.M.
Avi-Dor, Y., see Condrea, E.; see Suranyi, E.M.
Avigad, G., see Friedberg, I.; see Reese, E.T.
Avigan, J.
The presence of phytanic acid in normal human and animal plasma (116)392;
Pristanic acid (2,6,10,14-tetramethylpentadecanoic acid) and phytanic acid (3,7,11,15-tetramethylhexadecanoic acid) content of human and animal tissues (125)607
—, Milne, G.W.A. and Highet, R.J.
The occurrence of pristane and phytane in man and animals (144)127
—, see Baxter, J.H.
Avron, M.
— and Shavit, N.
Inhibitors and uncouplers of photophosphorylation (109)317
—, see Bennun, A.; see Hegesch, E.; see Shavit, N.; see Stern, A.I.; see Zweig, G.
Awapara, J., see Peck, E.J.
Axelrod, J., see Snyder, S.H.
Axelrod, V.D., see Bayev, A.A.
Ayuso, M.S.
— and Heredia, C.F.
Simple resolution of the yeast amino acid transfer system into two complementary factors (145)199
Azarraga, L., see Cilento, G.
Azoulay, E.
— et Couchoud-Beaumont, P.
Étude de la cytochrome-oxydase de Pseudomonas aeruginosa (110)301
Azzi, A.
— and Azzone, G.F.
Swelling and shrinkage phenomena in liver mitochondria. I. Large amplitude swelling induced by inorganic phosphate and by ATP (105)253;
Swelling and shrinkage phenomena in liver mitochondria. II. Low amplitude swelling-shrinkage cycles (105)265;
Swelling and shrinkage phenomena in liver mitochondria. III. Irreversible swelling induced by inorganic phosphate and Ca^{2+} (113)438;
Swelling and shrinkage phenomena in liver mitochondria. IV. Reversible swelling changes linked to transport of monovalent cations stimulated by valinomycin (113)445;
Metabolism-dependent mitochondrial shrinkage coupled to ion movement (120)466;

Azzi, A.
— and Azzone, G.F.
Swelling and shrinkage phenomena in liver mitochondria. VI. Metabolism-independent swelling coupled to ion movement (131)468; Ion transport in liver mitochondria. II. Metabolism-linked ion extrusion (135)444
— and Scarpa, A.
Inhibition of K^+ transport in liver mitochondria (135)1087
Azzi, J.R., see Bertsch, W.
Azzone, G.F.
–, Milic, G., Marcer, G. and Ottolenghi, A. Inhibition by ergotamine and ergobasinine of Ca^{2+} uptake from the sarcotubular system (115)513
–, see Azzi, A.; see Rossi, C.

B

Babior, B.M.
The role of vitamin K in clotting factor synthesis. I. Evidence for the participation of vitamin K in the conversion of a polypeptide precursor to factor VII (123)606
Bach, D.
–, Miller, I.R. and Marikovsky, Y.
Interaction of deoxyribonucleic acid with poly-4-vinylpyridine (114)311
Bach, M.-L.
–, Luzzati, D. and Chevallier, M.-R.
Action of succinic peroxide on the transforming activity of the DNA from Hemophilus influenzae (119)75
Bachhawat, B.K., see Balasubramanian, A.S.
Bachofen, R.
– and Arnon, D.I.
Crystalline ferredoxin from the photosynthetic bacterium Chromatium (120)259
Bachrach, U.
–, Abzug, S. and Bekierkunst, A.
Cytotoxic effect of oxidized spermine on Ehrlich ascites cells (134)174
– and Eilon, G.
Interaction of oxidized polyamines with DNA. I. Evidence for the formation of cross-links (145)418
–, see Persky, S.
Baden, H.P.
– and Cohen, J.
Protein synthesis in epidermal cells (108)143
– and Pathak, M.A.
Urocanic acid in keratinizing tissue (104)200
Bader, H.
– and Broom, A.H.
Ca^{2+}-dependent inhibition of $(Na^+ + K^+)$-dependent ATPase by hydroxylamine (139)516
–, Post, R.L. and Jean, D.H.
Further characterization of a phosphorylated intermediate in $(Na^+ + K^+)$-dependent ATPase (143)229
– and Sen, A.K.
K^+-dependent acylphosphatase as part of the $(Na^+ + K^+)$-dependent ATPase of cell membranes (118)116
–, Sen, A.K. and Post, R.L.
Isolation and characterization of a phosphorylated intermediate in the $(Na^+ + K^+)$-dependent ATPase system (118)106
Bader, J.P., see Wilson, R.G.
Bader, P., see Salach, J.
Badrinath, P.G., see Braganca, B.M.
Bagby, M.O.
– and Smith, Jr., C.R.
Asymmetric triglycerides from Impatiens edgeworthii seed oil (137)475
Baglioni, C.
Inhibition of protein synthesis in reticulocytes by antibiotics. III. Mechanism of action of sparsomycin (129)642
–, La Via, M. and Ventruto, V.
A study of immunoglobin structure. I. The fingerprinting of aminoethylated Bence–Jones proteins (111)479
–, see Colombo, B.; see Felicetti, L.
Baguley, B.C.
–, Bergquist, P.L. and Ralph, R.K.
Fractionation of amino acid acceptor RNA. III (108)139;
Low molecular weight T4 phage-specific RNA (138)51
–, see Bergquist, P.L.; see Wevers, W.F.
Baich, A.
– and Pierson, D.J.
Control of proline synthesis in Escherichia coli (104)397
Bailey, A.J., see Fessler, J.H.
Bailey, J.L., see Ridley, S.M.
Bailey, J.M.
Lipid metabolism in cultured cells. VI. Lipid biosynthesis in serum and synthetic growth media (125)226
Bailey, J.S., see Swingle, K.F.
Bailin, G.
– and Bárány, M.
Studies on actin–actin and actin–myosin interaction (140)208
– and Lukton, A.
Alkylation and photooxidation of phosphorylase a (110)622;
Allosteric properties of a phosphorylase "A"–glutamic–pyruvic transaminase complex (128)317
Baird, G.D.
Ketogenesis in slices of liver and lactating-mammary gland from normal and ketotic cows (111)339
Bak, T.-G.
Studies on glucose dehydrogenase of Aspergillus oryzae. II. Purification and physical and chemical properties (139)277;
Studies on the glucose dehydrogenase of Aspergillus oryzae. III. General enzymatic properties (146)317
– and Sato, R.
Studies on the glucose dehydrogenase of Aspergillus oryzae. I. Induction of its synthesis by p-benzoquinone and hydroquinone (139)265;
Studies on the glucose dehydrogenase of Aspergillus oryzae. IV. Histidyl residue as an active site (146)328
Baker, A.
–, Ormerod, M.G., Dean, C.J. and Alexander, P.
The reaction of radicals induced in Escherichia coli B/r by γ-rays with cysteamine and with oxygen (114)169;
The site of action of cysteamine in irradiated bacteria: An electron spin resonance study (126)37
Baker, A.L.
– and Tolbert, N.E.
Purification and some properties of an alternate form of glycolate oxidase (131)179

Baker, E.
— and Simmonds, W.J.
Membrane ATPase and electrolyte levels in marsupial erythrocytes (126)492
Baker, P.F.
— and Stone, A.J.
A kinetic method for investigating hypothetical models of the sodium pump (126)321
Bakerman, S., see Moore, H.C.
Balasubramaniam, K.
— and Deiss, Jr., W.P.
Characteristics of thyroid lysosomal cathepsin (110)564
—, see Peake, R.L.
Balasubramanian, A.S.
— and Bachhawat, B.K.
Formation of cerebroside sulphate from 3'-phosphoadenosine 5'-phosphosulphate in sheep brain (106)218
Balazs, E.A.
—, Phillips, G.O. and Young, M.D.
Polyanions and their complexes. II. Light-induced paramagnetism in solid glycosaminoglucan–dye complexes (141)382
—, see Swann, D.A.; see Young, M.D.
Baldry, C.W.
—, Bucke, C. and Walker, D.A.
Temperature and photosynthesis. I. Some effects of temperature on CO_2 fixation by isolated chloroplasts (126)207
—, see Cockburn, W.
Baldwin, R.L., see Emery, R.S.
Balinsky, D.
Kinetic properties and mechanism of action of human-heart lactate dehydrogenase and "α-hydroxybutyrate dehydrogenase" (122)537
Balis, M.E., see Salser, J.S.
Ball, J.K.
—, McCarter, J.A. and Smith, M.F.
The interaction in vitro of polycyclic aromatic hydrocarbons with DNA's (103)275
Ballew, E., see Campbell, B.J.
Ballio, A.
—, Kulaev, I., Moret, V. and Russi, S.
Nucleotides of microorganisms. XI. The occurrence of guanine propionate in Claviceps paspali Stevens and Hall (115)489
Baltscheffsky, H., see Trebst, A.
Bamji, M.S.
— and Krinsky, N.I.
The carotenoid pigments of radiation-resistant micrococcus SP (115)276
Bandurski, R.S., see Torii, K.
Banerjee, R.
— et Cassoly, R.
Préparation d'un tétramère dihéminique dérivé de l'hémoglobine (133)545
— et Sagaert, L.
Dissociation de l'hémoglobine humaine en milieu acide (140)266
—, see Cassoly, R.
Banerjee, R.K.
— and Roy, A.B.
The formation of cholesteryl sulphate of androstenolone sulphotransferase (137)211
Banga, I.
— and Ardelt, W.
Studies on the elastolytic activity of serum (146)284
Bangham, A.D.
– and Papahadjopoulos, D.
Biophysical properties of phospholipids. I. Interaction of phosphatidylserine monolayers with metal ions (126)181
Banks, J., see Luzzatto, L.
Bannai, S.
– and Terayama, H.
Regulation of RNA synthesis in chromatin (aggregate enzyme) from rat liver (142)410
Bannister, T.T.
Simple oscillations in photosynthetic oxygen evolution (109)97;
Effect of carbonyl cyanide p-trifluoromethoxyphenylhydrazone on chlorophyll fluorescence and photosynthesis (143)275
Bannister, W.H.
– and Morrissey, S.
NADP in gastric mucosa (143)645
Bárány, M., see Bailin, G.; see Conover, T.E.; see Gaetjens, E.
Barban, S.
Differential action of hormones on induced resistance to 2-deoxy-D-glucose in mammalian cell cultures (115)197
Barbason, H., see Verly, W.G.
Barber, G.A.
The anomeric configuration of L-rhamnose in uridine 5'-diphosphate ahd thymidine 5'-diphosphate L-rhamnose (141)174
Barber, R.
The chromatographic separation of RNA's (114)422;
Acid denaturation of DNA (134)207
– and Noble, M.
Binding of alkali metal ions to polynucleotides (123)205
Barbier, M., see Villanueva, V.R.
Barclay, M., see Skipski, V.P.
Barg, Jr., W.F.
–, Boggiano, E. and De Renzo, E.C.
Starch-gel electrophoretic analysis of highly purified human plasminogen (104)470
Barkai, E., see Schramm, M.
Barker, G.R.
– and Hollinshead, J.A.
Ribosomes from the cotyledons of Pisum arvense (108)323
Barker, K.L., see Warren, J.C.
Barker, R.H., see Jendrek, J.P.
Bar-Meir, S., see Kaye, A.M.
Barnabei, O., see Brighenti, L.
Barnard, A.C., see Packer, L.
Barnes, Jr., F.W., see Morris, D.J.
Barnhart, B.J.
Competence-stimulating activity in sterile filtrates from Hemophilus influenzae (142)465
Barnhart, M.I., see Heberlein, P.J.
Baron, D.N., see Pietruszko, R.
Barra, D., see Cerletti, P.
Barra, H.S.
– and Caputto, R.
Isolation and identification of a lactose sulphate ester from rat mammary gland (101)367
Barrett, J.
– and Sinclair, P.
The cytochrome c (552) of aerobically grown Escherichia coli, str. McElroy and its function (143)279

—, see Sinclair, P.
Barron, E.J.
Mitochondrial fatty acid synthesizing system: General properties and acetate incorporation into monoenoic acids (116)425
Barrowman, J., see Morgan, R.G.H.
Barry, G.T., see Free, C.A.
Barry, J.M., see Mayne, R.
Bartels, C.T.
— and Van Deenen, L.L.M.
On the conversion of lysophosphoglycerides by homogenates of spinach leaves (125)395
Bartels, E.
Relationship between acetylcholine and local anesthetics (109)194
—, see Karlin, A.
Bartels, P.G.
— and Wolf, F.T.
Anthocyanin pigment formation in wheat seedlings following treatment with amitrole (136)166
Barth, P.T., see Hele, P.
Bartl, P.
— and Boublík, M.
Electromicroscopic and viscometric investigation of changes induced by heat in the secondary structure of calf thymus DNA (103)678
—, see Zadražil, S.
Bartley, J.C.
— and Abraham, S.
Evidence for discrimination against tritium during oxidation of glucose via the glucose-6-phosphate dehydrogenase reaction (148)563
—, Abraham, S. and Chaikoff, I.L.
Factors influencing the pattern of fatty acids synthesized by cell-free preparations of lactating rat mammary gland (144)51
Bartnicki-Garcia, S.
— and Lippman, E.
Enzymic digestion and glucan structure of hyphal walls of Phytophtora cinnamomi (136)533
Barton, P.G.
— and Hanahan, D.J.
The preparation and properties of a stable factor V from bovine plasma (133)506
Bartosiński, B.
—, Zagalak, B. and Pawełkiewicz, J.
The route of vitamin B_{12} biosynthesis in Propionibacterium shermanii (136)581
Bartow Culp, F., see Coniglio, J.G.
Bartsch, R.G., see Dus, K.
Bartter, F.C., see Pak, C.Y.C.
Bascur, L.
—, Cabello, J., Véliz, M. and González, A.
Molecular forms of human-liver arginase (128)149
Baserga, R.
—, Petersen, R.O. and Estensen, R.D.
RNA synthesis in liver and heart of growing and adult mice (129)259
— and Weiss, L.
Inhibition of DNA synthesis by pentobarbital (145)361
Bashey, R.I., see Torii, S.; see Woessner, Jr., J.F.
Bassham, J.A., see Chan, H.W.-S.; see Gould, E.S.; see Hiller, R.; see Pedersen, T.A.
Bastarrachea, F.
— and Ortega, M.V.
Biosynthesis of ornithine transcarbamylase in Escherichia coli during phenotypic suppression by streptomycin (138)151
Basu, S.
— and Dasgupta, N.N.
Spectrophotometric investigation of DNA in the ultraviolet (145)391
Basu, S.K.
—, Chakrabarty, A.M. and Roy, S.C.
Enhancement of catabolite repression by mitomycin C in the induced synthesis of β-galactosidase (108)713
Batink, H., see Bon, W.F.
Batlin, A., see Fischer, D.J.
Batra, P.P.
Induction of carotenoid synthesis by antimycin A in the dark in Myobacterium marinum (148)315
Baudine, A., see Broekhuysen, J.
Bauer, C.
— and Von Korff, R.W.
Variation in endogenous substrates and pyruvate metabolism in isolated heart mitochondria of several species (131)280
—, see Ronca, G.
Bauer, R.D.
— and Johanson, R.
A gentle method for isolation of DNA and histones from the same small tissue sample (119)418
Bauer, S., see Biely, P.
Baugh, C.M.
— and Shaw, E.N.
The reaction of β-propiolactone with inosine 5'-phosphate. The preparation of N-(5-amino-1-β-D-ribofuranosylimidazole-4-carbonyl)-β-alanine 5'-phosphate (114)213
Baumann, W.J.
— and Mangold, H.K.
Alkoxylipids. I. Preparation and characterization of alkoxy-diglycerides and dialkoxy-diglycerides (116)570
—, Schmid, H.H.O., Ulshöfer, H.W. and Mangold, H.K.
Alkoxylipids. IV. Synthesis and characterization of naturally occurring ethers, esters and ether esters of diols (144)355
—, see Schmid, H.H.O.
Baxter, J.H.
—, Steinberg, D., Mize, C.E. and Avigan, J.
Absorption and metabolism of uniformly ^{14}C-labeled phytol and phytanic acid by the intestine of the rat studied with thoracic duct cannulation (137)277
Bayer, E.
—, Josef, D., Krauss, P., Hagenmaier, H., Röder, A. und Trebst, A.
Abbau und Resynthase des Aktivzentrums vom Pflanzenferredoxin (143)435
— and Voelter, W.
Preparation of iron-free active xanthine oxidase (113)632
Bayer, M.E., see Petrović, S.
Bayev, A.A.
—, Venkstern, T.V., Mirsabekov, A.D., Krutilina, A.I., Li, L. and Axelrod, V.D.
Oligonucleotide composition of enzymatic

Bayev, A.A. (continued)
hydrolysates of yeast valine-specific tRNA (108)162
—, see Mirzabekov, A.D.
Beach, D., see Erwin, J.A.
Beale, D.
Differences in amino acid sequence between sheep haemoglobin A and B (127)239
—, see Sick, K.
Beall, G.N.
— and Solomon, D.H.
Proteolytic activity and inhibition of the long-acting stimulator of Graves' disease by thyroid extracts (148)495
Beare, J.L., see Kates, M.
Bearn, A.G., see Poillon, W.N.; see Simons, K.
Beaty, H.N.
Serologic reactions of bovine procarboxypeptidase A and carboxypeptidase A (124)362
Beaud, G.
Mode d'action de la glycine sur l'inhibition de la croissance d'Agrobacterium tumefaciens I. Effets sur le métabolisme des mRNAs des bactéries, souche B6 (129)563
Bechet, J., see Grenson, M.
Béchet, J-J.
—, Gardiennet, M-C. et Yon, J.
Étude de l'inbition de la trypsine par les dérivés acides et amides des esters spécifiques (122)101
—, see D'Albis, A.
Bechmann, F., see Schramm, G.
Becht, H., see Scholtissek, C.
Beck, C., see Ragab, H.
Beck, G., see Ebel, J-P.
Beck, J.C., see Dawson, K.G.; see Fessler, A.
Beck, M., see Saunders, D.R.
Beck, W.S., see Goulian, M.; see Kashket, S.; see Smith, M.J.
Becker, E.F., Jr.
Structure and function of cross-linked DNA. II. Loss of reversibility of HNO_2-cross-linked DNA during transformation of Bacillus subtilis (142)238
Becker, E.L.
The relationship of the structure of phosphonate esters to their ability to inhibit chymotrypsin, trypsin, acetylcholinesterase and C'1a (147)289
Becker, G.E.
— and Pappenheimer, Jr., A.M.
Lyase activity of inducible S8-depolymerases from Bacillus palustris (121)343
Becker, K., see Sigel, H.
Beckwith, A.C.
— and Wall, J.S.
Reduction and reoxidation of wheat glutenin (130)155
Beechey, R.B., see Blandamer, A.
Beeley, J.G.
— and Jevons, F.R.
Heterogeneity of ovomucoid (101)133
Beer, M., see Fiskin, A.M.
Beerthuis, R.K., see Struijk, C.B.
Begg, D., see Fleck, A.
Bégin, N.
— and Scholefield, P.G.
Uptake of amino acids by mouse pancreas in vitro. III. The kinetic characteristics of the transport of L-proline (104)566
Beguin, S., see Kepes, A.
Behme, M.T.A.
— and Cordes, E.H.
Equilibrium constants for association of actinomycin D with several purine derivatives (108)312
Beigelman, P.M., see Miller, L.V.
Beinert, H., see Shethna, Y.I.
Beintema, J.J.
— and Gruber, M.
Amino acid sequence in rat pancreatic ribonuclease (147)612
Békési, I., see Szabó, G.
Bekierkunst, A., see Bachrach, U.
Belfrage, P.
Metabolism of chyle triglycerides in the liver. I. Studies on the mechanisms for liver uptake of intravenously injected, glycerol- and fatty acid-labeled chyle in the carbohydrate-fed rat (125)474
—, Elovson, J. and Olivecrona, T.
Radioactivity in blood and liver partial glycerides, and liver phospholipids after intravenous administration to carbohydrate-fed rats of chyle containing double-labeled triglycerides (106)45
—, see Elovson, J.
Bell, C., see Hilf, R.
Bell, E.
— and Reeder, R.
The effect of fertilization on protein synthesis in the egg of the surf clam Spisula solidissima (142)500
Bell, K.
The detection and occurrence of bovine β-lactoglobulin C (147)100
— and McKenzie, H.A.
The isolation and properties of bovine β-lactoglobulin C (147)109;
The whey proteins of ovine milk: β-Lactoglobulins A and B (147)123
Bell, Jr., O.E.
—, Cain, C.E., Sulya, L.L. and White, Jr., H.B.
The occurrence of polyunsaturated aldehydes in choline-containing phosphoglycerides of a human brain meningioma (144)481
—, see Cain, C.E.
Bellair, J.T.
— and Mauritzen, C.M.
Comparison of β-histone isolated from chicken erythrocyte, liver and spleen and ox thymus (133)263
Bellamy, A.R.
RNA synthesis in exponentially growing tobacco cells subjected to a step-down nutritional shift (123)102
Bellin, J.S.
— and Yankus, C.A.
Effects of photodynamic degradation on the viscosity of DNA (112)363
Bello, H.R., see Bello, J.
Bello, J.
The effects of biuret-complex formation and of salts on the collagen helix and on the gelation of gelatin (109)250
— and Bello, H.R.
Spontaneous cross-linking of collagen: Evidence for metal-catalyzed and oxidative reactions (147)272

— and Nowoswiat, E.F.
Activity of crystalline ribonuclease (105)325
Beloff, R.H., see Kammen, H.O.
Bemis, J.A.
—, Argus, M.F. and Arcos, J.C.
Studies on the denaturation of biological macromolecules by chemical carcinogens. III. Optical rotatory dispersion and light-scattering changes of ovalbumin during denaturation and aggregation by water-soluble carcinogens (126)274
Ben Abdeljlil, A., see Palla, J.C.
Benagiano, G., see Mancuso, S.
Benedetti, E.L., see Bloemendal, H.
Benedict, A.A., see Hersh, R.T.
Beney, L.
— and Elödi, P.
Amino acid composition of swine muscle lactate dehydrogenase (110)210
—, see Székely, M.
Ben-Hamida, F.
— and Schlessinger, D.
Synthesis and breakdown of RNA in Escherichia coli starving for nitrogen (119)183
—, see Schlessinger, D.
Ben-Hur, E.
—, Elad, D. and Ben-Ishai, R.
The photosensitized dimerization of thymidine in solution (149)355
Ben-Ishai, R., see Ben-Hur, E.
Benjamin, W., see Gellhorn, A.
Bennett, Jr., L.L.
—, Ward, V.L. and Brockman, R.W.
Inhibition of protein synthesis in vitro by cycloheximide and related glutarimide antibiotics (103)478
—, see Allan, P.W.
Bennett, R.
—, Taylor, D.R. and Hurst, A.
D- and L-lactate dehydrogenases in Escherichia coli (118)512
Bennun, A.
— and Avron, M.
The relation of the light-dependent and light-triggered ATPases to photophosphorylation (109)117
— and Blum, J.J.
Properties of the induced acid phosphatases and of the constitutive acid phosphatase of Euglena (128)106
Benoiton, L.
— and Deneault, J.
The hydrolysis of two ϵ-N-methyl-L-lysine derivatives by trypsin (113)613
Benschop, H.P.
— and Keijer, J.H.
On the mechanism of ageing of phosphonylated cholinesterases (128)586
Benson, A.A., see Patton, S.
Benson, E.S., see Hallaway, B.E.
Bentley, J.P.
— and Jackson, D.S.
Collagen synthesis and fibrogenesis in scurvy (107)519
Benton, F.L., see Strain, H.H.
Benzonana, G.
— et Desnuelle, P.
Etude cinétique de l'action de la lipase pancréatique sur des triglycérides en émulsion. Essai d'une enzymologie en milieu hétérogène (105)121
—, see Sémériva, M.
Berends, W., see Mager, H.I.X.; see Posthuma, J.
Berenson, G.S.
— and Dalferes, Jr., E.R.
Urinary excretion of mucopolysaccharides in normal individuals and in the Marfan syndrome (101)183
—, see Radhakrishnamurthy, B.
Berg, G.G., see Rega, A.F.
Berg, H.
— und Kramarczyk, H.
Das Chlorophyll-radikal, generiert durch polarographische Reduktion (131)141
Berg, P., see Jackson, J.F.
Bergelson, L.D.
—, Vaver, V.A., Prokazova, N.V., Ushakov, A.N. and Popkova, G.A.
Diol lipids (116)511
Berger, A., see Yaron, A.
Berger, G.
— et May, P.
Purification et propriétés d'un inhibiteur de la désoxyribunucléase pancréatique, extrait du serum de rat (139)148
Bergeron, J.A.
— and Olson, J.M.
Low-temperature fluorescence emission and excitation spectra for Anacystis nidulans (131)401
Bergeron-Bouvet, C.
— and Moulé, Y.
Sédimentation en gradient de saccharose du RNA des membranes microsomiales de foie de rat (123)617
Bergersen, F.J.
Nitrogen fixation in breis of soybean root nodules (115)247;
Some properties of nitrogen-fixing breis prepared from soybean root nodules (130)304
— and Turner, G.L.
Nitrogen fixation by the bacteroid fraction of breis of soybean root nodules (141)507
Berggård, I., see Lundblad, A.
Bergot, J., see Lissitzky, S.
Bergquist, L.M., see Searcy, R.L.
Bergquist, P.L.
Nucleotide sequence adjacent to the amino acid-acceptor end of five seryl-sRNA's from brewers yeast (103)347
—, Baguley, B.C., Robertson, J.M. and Ralph, R.K.
Fractionation of amino acid acceptor ribonucleic acid. II (108)531
— and Robertson, J.M.
Nucleotide sequences from yeast serine-acceptor RNA's (103)579
—, see Baguley, B.C.
Berman, E., see Silber, R.
Berman, E.R.
Isolation of neutral sugar-containing mucopolysaccharides from cattle retina (101)358
Berman, K.
—, Itada, N. and Cohn, M.
On the mechanism of ATP cleavage in the phosphoenolpyruvate synthase reaction of Escherichia coli (141)214
Bernardi, A.
— and Bernardi, G.
Studies on acid hydrolase. III. Isolation and

Bernardi, A. (continued)
properties of spleen acid ribonuclease (129)23
—, see Bernardi, G.; see Chersi, A.
Bernardi, G.
—, Bernardi, A. and Chersi, A.
Studies on acid hydrolases. I. A procedure for the preparation of acid deoxyribonuclease and other acid hydrolases (129)1
—, see Bernardi, A.; see Chersi, A.; see Faulhaber, I.
Berndt, J.
—, Gaumert, R. und Ulbrich, O.
Zur Störung der Fettsäurebiosynthese nach Strahleneinwirkung in vivo (137)43
Bernhardt, W.
—, Zink, M. und Holzer, H.
NAD-abhängige Glutamatdehydrogenase aus reprimierter und dereprimierter Bäckerhefe (118)549
—, see Panten, K.
Bernlohr, R.W., see Stahly, D.P.
Bernofsky, C.
— and Utter, M.F.
Secondary activation effects of mitochondrial isocitrate dehydrogenases from yeast (132)244
Bernstein, G., see Smith, J.C.
Berrens, L.
— and Bleumink, E.
Ultraviolet absorption of N-glycosidic (lysine–sugar) linkages in proteins (115)504
Berry, S.A.
— and Campbell, J.N.
The extracellular nuclease activity of Micrococcus sodonensis. I. Isolation and purification (132)78;
The extracellular nuclease activity of Micrococcus sodonensis. II. Characterization and mode of action (132)84
Berry, S.J., see Firshein, W.
Berthet, J., see De Torrontegui, G.
Bertini, F.
—, Brandes, D. and Buetow, D.E.
Increased acid hydrolase activity during carbon starvation in Euglena gracilis (107)171
Bertino, J.R., see Johns, D.G.; see Sartorelli, A.C.; see Silber, R.
Bertolè, M.L., see Forti, G.
Bertoli, D., see Segal, S.
Bertsch, W.
—, Azzi, J.R. and Davidson, J.B.
Delayed light studies on photosynthetic energy conversion. I. Identification of the oxygen-evolving photoreaction as the delayed light emitter in mutants of Scenedesmus obliquus) (143)129
Bessada, R., see Erdos, T.
Best, J.S.
—, Bhavanandan, V.P. and Gottschalk, A.
Glycoproteins. XII. About glycosidic-ester linkages in submaxillary-gland glycoproteins prepared from sheep (101)141
Betel, I.
The occurrence of cytochromes in nuclei isolated from rat thymus (143)62
— and Klouwen, H.M.
Oxidative phosphorylation in nuclei isolated from rat thymus (131)453
Betheil, J.J.
—, Feigelson, M. and Feigelson, P.
Differential effect of glucocorticoid on tissue and plasma amino acid levels (104)92
Beugeling, T., see Sybesma, C.
Bewley, T., see Squire, P.G.
Bewly, T.A.
– and Li, C.H.
Human pituitary growth hormone. XV. The optical rotatory dispersion in acidic, neutral and basic solutions (140)201
Bézard, J., see Clément, J.
Bezkorovainy, A.
Some hydrodynamic properties of native and modified serum orosomucoids (101)336;
Ultracentrifugal behavior of transferrin in the presence of some anions (126)286;
Comparative study of metal-free, iron-saturated and sialic acid-free transferrins (127)535
– and Grohlich, D.
The behavior of native and reduced-alkylated human transferrin in urea and guanidine–HCl solutions (147)497
–, Springer, G.F. and Hotta, K.
Some physical properties of human NN and Me-Vg blood-group antigens (115)501
–, see Gerbeck, C.M.
Bhargava, A.S.
–, Buddecke, E., Werries, E. and Gottschalk, A.
Studies on glycoproteins. XIV. O-Seryl-N-acetylgalactosaminide glycosidase, the enzyme splitting the O-glycosidic linkage between carbohydrate and peptide in ovine submaxillary glycoprotein (127)457
– and Gottschalk, A.
Studies on glycoproteins. XIII. Preparation of ovine submaxillary gland glycoprotein by gel filtration and its physical, chemical and immunochemical characterization (127)223;
Studies on glycoproteins. XV. Substrate-dependence of O-seryl-N-acetyl-galactosaminide glycosidase (Helix pomatia) activity and mechanism of the enzymatic reaction (148)125;
Studies on glycoproteins. XVI. Serine and threonine residues, the only identifiable sugar acceptors in ovine submaxillary gland glycoprotein (148)132
Bhaskar, K.R.
– and Rao, C.N.R.
Hydrogen bonding of secondary amides (136)561
Bhatnagar, R.S.
– and Prockop, D.J.
Dissociation of the synthesis of sulphated mucopolysaccharides and the synthesis of collagen in embryonic cartilage (130)383
–, Rosenbloom, J., Kivirikko, K.I. and Prockop, D.J.
Effect of cycloheximide on collagen biosynthesis as evidence for a post-ribosomal site for the hydroxylation of proline (149)273
–, see Rosenbloom, J.
Bhattacharyya, S.N., see Ghosh, A.K.
Bhavanandan, V.P., see Best, J.S.; see Carubelli, R.
Bhuvaneswaran, C.
– and King, T.E.
Succinate–dehydrogenating activity and

cytochromes of hepatic microsomes (132)282
Biale, J.B., see Hobson, G.E.; see Richmond, A.
Bianchetti, R.
– and Sartirana, M.L.
The mechanism of the repression by inorganic phosphate of phytase synthesis in the germinating wheat embryo (145)485
Bianchi, P.A., see Farina, M.V.; see Polli, E.E.
Bianchi, R., see Rosa, U.
Bibring, T.
–, Brachet, J., Gaeta, F.S. and Graziosi, F.
Some physical properties of cytoplasmic DNA in unfertilized eggs of Arbacia lixula (108)644
Bielig, H.J.
–, Kratky, O. and Wawra, H.
• Small-angle scattering of apoferritin in solution (112)110
Bielski, B.H.J.
–, Henretig, R. and Freed, S.
Reactivity and stability of alcohol dehydrogenase below 0° in alcohol–water solvents (128)406
Biely, P.
– and Bauer, Š.
The formation of uridine diphosphate 2-deoxy-D-glucose in yeast (121)213
Biezunski, N., see Brawerman, G.
Biggins, J., see Sauer, K.
Biggs, D.R., see Huang, M.
Bihari-Varga, M.
– and Végh, M.
Quantitative studies on the complexes formed between aortic mucopolysaccharides and serum lipoproteins (144)202
Bihler, I.
– and Adamič, Š.
The effect of lithium on intestinal sugar transport (135)466
Billen, D.
– and Hewitt, R.
Concerning the dynamics of chromosome replication and degradation in a bacterial population exposed to X-rays (138)587
–, Hewitt, R. and Jorgensen, G.
X-ray-induced perturbations in the replication of the bacterial chromosomes (193)440
Billiar, R.B.
– and Eik-Nes, K.B.
Biosynthesis of corticoids in guinea-pig adrenal slices. The effect of ACTH on [1-^{14}C]acetate incorporation into adrenal steroids (104)503
– and Little, A.B.
The substitution of placental "mitochondrial" extracts for adrenal "mitochondrial" factors in steroid 11β-hydroxylation (122)559
Binder, H.J.
–, Spiro, H.M. and Spencer, R.P.
Temporal stability of intestinal transport systems (135)350
Bingham, J.K.
–, Newey, H. and Smyth, D.H.
Specificity of the inhibitory effects of sugars on intestinal amino acid transfer (120)314;
Interaction of sugars and amino acids in intestinal transfer (130)281
Bird, C.E.
–, Solomon, S., Wiqvist, N. and Diczfalusy, E.
Formation of C-21 steroid sulphates and glucosiduronates by previable human foetuses perfused with [4-^{14}C]progesterone (104)623
Birge, Jr., S.J., see Peck, W.A.
Birk, Y.
–, Gertler, A. and Khalef, S.
Further evidence for a dual, independent, activity against trypsin and α-chymotrypsin of inhibitor AA from soybeans (147)402
–, see Gertler, A.
Birkett, D.J., see Conyers, R.A.J.
Birnbaum, J., see Grinspan, H.
Birnboim, H.
The use of gel filtration to distinguish between endonucleolytic and exonucleolytic types of degradation (119)198
Birnstiel, M.L., see Wallace, H.
Birnstiel, M.L., see Sirlin, J.L.
Biró, N.A., see Mühlrad, A.
Bishai, F.
–, Kuntz, E. and Augenstein, L.
Intra- and intermolecular factors affecting the excited states of aromatic amino acids (140)381
Bishop, J.O.
Initiations of haemoglobin polypeptide chains (119)130
Bishop, N.I., see McKenna, J.M.; see Mantai, K.E.
Bishop, S.H.
– and Grisolia, S.
Crystalline carbamate kinase (118)211;
Crystalline ornithine transcarbamylase (139)344
Biswas, B.B., see Biswas, S.
Biswas, D.K.
– and Mazumder, R.
Studies on the end product regulation of aspartate kinase in certain strains of Escherichia coli (130)531
Biswas, S.
– and Biswas, B.B.
Enzymatic synthesis of guanosine triphosphate from phytin and guanosine diphosphate (108)710
Björk, G.R.
– and Svensson, I.
Analysis of methylated constituents from RNA by thin-layer chromatography (138)430
Björkerud, S., see Björntorp, P.; see Scherstén, T.
Björkstén, F.
Do thionamide antithyroid compounds act as free radical scavengers? (127)265
Bjørnstad, P.
Phospholipase activity in rat-liver microsomes studies by the use of endogenous substrates (116)500
Björntorp, P.
The oxidation of fatty acids combined with albumin by isolated rat-liver mitochondria in the presence of fluorocitrate (128)221
–, Björkerud, S. and Scherstén, T.
Subcellular fractionation of human liver (111)375
–, see Scherstén, T.
Black, Jr., C.C.
Chloroplast reactions with dipyridyl salts

Black, Jr., C.C. (continued)
(120)332
Blackburn, N.M.
– and Kostyo, J.L.
Stimulatory effect of follicle-stimulating hormone on amino acid incorporation into protein by a homogenate of rabbit ovaries (107)168
Blair, A., see Schwartzman, L.; see Segal, S.; see Thier, S.O.
Blair, P.V.
– and Tan, W.C.
Electron microscopic evidence for volumetric changes in heart mitochondria (143)631
Blake, J.
– and Li, C.H.
The syntheses and biological activities of [$Gly^{11,12,13}$]-α-ACTH-(1–19)-nonadecapeptide, [$Gly^{12,13}$]-α-ACTH-(1–17)-heptadecapeptide amide, [$Gly^{11,13}$]-α-ACTH-(1–17)-heptadecapeptide amide, and [Gly^{13}]-α-ACTH-(1–17)-heptadecapeptide amide (147)386
Blake, R.L.
–, Blake, S.L. and Kun, E.
Increase of NAD-glycohydrolase activity of rat-liver microsomes by starvation (148)293
Blake, S.L., see Blake, R.L.
Blakeley, R.L.
–, De Jersey, J., Webb, E.C. and Zerner, B.
On the homology of the active-site peptides of liver carboxylesterases (139)208
Blandamer, A.
– and Beechey, R.B.
The purification and properties of an α-amylase from the hepatopancreas of Carcinus maenas, the common shore crab (118)204
– and Danishefsky, I.
Investigations on the structure of the capsular polysaccharide from Cryptococcus neoformans type B (117)305
Blasi, F.
The role of free radicals of 4-hydroxy-3,5-diiodophenylpyruvic acid in the synthesis of thyroxine (121)204
Blau, K., see Darbre, A.
Blauer, G.
– and Alfassi, Z.B.
A comparison between poly-α-L-ornithine and poly-α-L-lysine in solution: The effect of a CH_2 group in the side chain on the conformation of poly-α-amino acids (133)206
– and Ehrenberg, A.
Effect of electrolytes on the paramagnetic susceptibility of ferriprotoporphyrin IX in solution (112)496
– and Zvilichovsky, B.
Macromolecular complexes of ferriprotoporphyrin IX as catalysts for the oxidation of cysteine by molecular oxygen (110)215
Blaustein, M.P.
Phospholipids as ion exchangers: Implications for a possible role in biological membrane excitability and anesthesia (135)653
Blears, D.J.
– and Danyluk, S.S.
A study of conformational transitions in proteins by the pulsed NMR method (147)404
Blecher, M.
Effects of insulin and phospholipase A on glucose transport across the plasma membrane of free adipose cells (137)557; Enzyme specificity in the stimulation of glucose transport in free adipose cells by phospholipases (137)572
Bleeg, H., see Decker, K.
Bleumink, E., see Berrens L.
Bloch, A.
–, Leonard, R.J. and Nichol, C.A.
On the mode of action of 7-deaza-adenosine (tubercidin) (138)10
Bloemendal, H.
–, Schoenmakers, J., Zweers, A., Matze, R. and Benedetti, E.L.
Polyribosomes from calf lens epithelium (123)217
–, see Hoenders, H.J.; see Kwa, H.G.; see Schoenmakers, J.G.G.
Blombäck, B.
–, Blombäck, M., Edman, P. and Hessel, B.
Human fibrinopeptides: Isolation, characterization and structure (115)371
–, Blombäck, M., Holmberg, E., Laurent, T.C. and Pertoft, H.
Effect of EDTA on fibrinogen (127)560
–, see Iwanaga, S.
Blombäck, M., see Blombäck, B.
Blum, J.J., see Bennun, A.; see Kahn, V.
Blumberg, W.E.
– and Peisach, J.
The optical and magnetic properties of copper in Chenopodium album plastocyanin (126)269
Blume, K.G., see Goedde, H.W.
Blumenkrantz, N., see Schiller, S.
Boardman, N.K.
– and Anderson, J.M.
Fractionation of the photochemical systems of photosynthesis. II. Cytochrome and carotenoid contents of particles isolated from spinach chloroplasts (143)187
– and Highkin, H.R.
Studies on a barley mutant lacking chlorophyll b. I. Photochemical activity of isolated chloroplasts (126)189
–, see Anderson, J.M.
Bobb, D.
Thermal denaturation of chymotrypsinogen–DNA complexes (119)639
Bock, R.M., see Breuning, G.; see Yang, P.C.
Boder, G.B., see Gerzon, K.
Bodmann, O.
Sedimentations- und Diffusionskoeffizienten aus dem Transport enzymatischer Aktivitäten. Anwendung der Bestimmungsmethoden auf die Glucoseoxydasen aus Penicillium notatum (Notatin) und aus Aspergillus niger (Nigerin) (132)1
– und Walter, M.
Die Glucose-Oxydasen aus Penicillium notatum (Notatin) und Aspergillus niger (Nigerin). Isolierung und einige molekulare Eigenschaften (110)496
Body, D.R.
–, Shorland, F.B. and Gass, J.B.
The foetal and maternal lipids of romney sheep. I. The composition of the lipids of

the total tissues (125)207
–, see Shorland, F.B.
Boedtker, H.
– and Stumpp, S.
Some properties of viral RNA-dependent amino acid incorporation (114)355
Boer, P., see Steyn-Parvé, E.P.
Boezi, J.A., see Armstrong, R.L.
Boggiano, E., see Barg, Jr., W.F.
Bogin, E.
– and Wallace, A.
The inhibition of lemon citrate-condensing enzyme by ATP (128)190
Bogucka, K.
– and Wojtczak, L.
Effect of sodium azide on oxidation and phosphorylation processes in rat-liver mitochondria (122)381
Böhm, H., see Von Holt, C.
Böhme, K.-H., see Schubert, K.
Bøhmer, T.
Tissue levels of activated fatty acids (acylcarnitines) and the regulation of fatty acid metabolism (144)259
–, Norum, K.R. and Bremer, J.
The relative amounts of long-chain acylcarnitine, acetylcarnitine, and free carnitine in organs of rats in different nutritional states and with alloxan-diabetes (125)244
Bohn, T.S.
–, Farnsworth, K.R. and Dibble, W.E.
Small-angle X-ray scattering studies of beef pancreas ribosomes (138)212
Bohnert, E., see Knappe, J.
Boi-Doku, F.S.
– and Pik, C.
Spontaneous oxidation of the γ-chain of the foetal haemoglobin component of cord blood (115)495
Boiron, M., see Galibert, F.
Bojalil, L.F., see Mora, J.
Boling, M.E.
– and Setlow, J.K.
The resistance of Micrococcus radiodurans to ultraviolet radiation. III. A repair mechanism (123)26;
Photoreactivating enzyme in logarithmic-phase and stationary-phase yeast cells (145)502
–, see Setlow, J.K.
Bollen, A.
–, Herzog, A., Burny, A., Marbaix, G. and Huez, G.
tRNA, activating enzymes and amber suppression (134)454
Bolotina, I.A.
–, Markovich, D.S., Volkenstein, M.V. and Zavodsky, P.
Investigation of the conformation of D-glyceraldehyde-3-phosphate dehydrogenase (132)260;
Investigation on the conformation of lactate dehydrogenase and its catalytic activity (132)271
Bon, W.F.
–, Dohrn, A. and Batink, H.
The lens proteins of a marine invertebrate Octopus vulgaris (140)312
Bonaretti, G., see Cennamo, C.
Bond, H.E., see Flamm, W.G.
Bond, S.B., see Flamm, W.G.
Bondy, P.K., see Silverstein, J.
Boni, R., see Marzotto, A.
Boniface, J.
– and Koch, A.L.
The interaction between permeases as a tool to find their relationship on the membrane (135)756
–, see Peterson, R.N.
Bonner, J., see Schwimmer, S.
Bonsen, P.P.M.
–, De Haas, G.H. and Van Deenen, L.L.M.
Synthesis and enzymic hydrolysis of an O-alanyl ester of phosphatidyl glycerol (106)93
–, see De Haas, G.H.
Bonting, S.L.
– and Caravaggio, L.L.
Studies on (Na^+–K^+)-activated ATPase. XVI. Its absence from the cation transport system of Ulva lactuca (112)519
–, see Corrie, W.S.
Bookchin, R.M.
–, Nagel, R.L. and Ranney, H.M.
Formation and properties of hemoglobin $\beta_2^A \beta_2^S$ (140)243
Booth, B.A., see Johns, D.G.; see Sartorelli, A.C.
Booyse, F.M.
– and Rafelson, Jr., M.E.
Stable mRNA in the synthesis of contractile protein in human platelets (145)188
Boquet, P.L.
– et Fromageot, P.
Sur l'origine de la taurine urinaire excrétée par le rat soumis à une irradiation par le ^{60}Co. I (11)40
Bordes, A.M., see Surdin, Y.
Borek, F.
–, Stupp, Y. and Sela, M.
Immunogenicity of hapten conjugates of poly-D-tyrosine (140)360
Borghi, S., see Botré, C.
Borgström, B.
Dimensions of the bile salt micelle. Measurements by gel filtration (106)171
–, see Feldman, E.B.; see Morgan, R.G.H.; see Nilsson, Å.
Borman, G.S.
– and Roizman, B.
Inhibition of herpes simplex virus multiplication by nucleosides (103)50
Boroff, D.A.
– and Das Gupta, B.R.
Toxin of Clostridium botulinum. Effects of 2-hydroxy-5-nitrobenzyl bromide on the biological activity of botulinum toxin (117)289
–, see DasGupta, B.R.
Boros, D.L.
– and Olitzki, A.L.
The antigenic activity of native and heat-denatured DNA isolated from Salmonella typhimurium strain TY_2 (138)532
Borowiecki, M.T., see Pasieka, A.E.
Borowski, E.
–, Chmara, H. and Jareczek-Morawska, E.
The antibiotic edeine. VI. Paper and thin-layer chromatography of components of the edeine complex (130)560
Borrebaek, B.

Borrebaek, B. (continued)
Increase in epididymal adipose tissue hexokinase activity induced by glucose and insulin (128)211;
Adaptable hexokinase activity in epididymal adipose tissue studied in vivo and in vitro (141)221
Borst, P.
— and Ruttenberg, G.J.C.M.
Renaturation of mitochondrial DNA (114)645
—, Ruttenberg, G.J.C.M. and Kroon, A.M.
Mitochondrial DNA. I. Preparation and properties of mitochondrial DNA from chick liver (149)140
—, Van Bruggen, E.F.J., Ruttenberg, G.J.C.M. and Kroon, A.M.
Mitochondrial DNA. II. Sedimentation analysis and electron microscopy of mitochondrial DNA from chick liver (149)156
—, see Van Bruggen, E.F.J.
Borst Pauwels, G.W.F.H., see Schönherr, O.Th.
Bortz, W.M.
Fat feeding and cholesterol synthesis (137)533
Borun, T.W.
—, Scharff, M.D. and Robbins, E.
Preparation of mammalian polyribosomes with the detergent Nonidet P-40 (149)302
Bos, C.J., see Emmelot, P.
Bosačková, J.
— and Crane, R.K.
Studies on the mechanism of intestinal absorption of sugars. VIII. Cation inhibition of active sugar transport and ^{22}Na influx into hamster (102)423;
Studies on the mechanism of intestinal absorption of sugars. IX. Intracellular Na^+ concentrations and active sugar transport by hamster small intestine in vitro (102)436
Bosch, L., see Verhoef, N.J.
Bose, R.K., see Sloviter, H.A.
Boshell, B.R., see Pruitt, K.M.
Bosko, S., see Mühlrad, A.
Botman, M.J., see Kroon, A.M.
Botré, C.
—, Borghi, S. and Marchetti, M.
Asymmetric polymeric membranes as a possible model of biological membranes (135)162;
On the behavior of "coupled" ion-exchange membrane electrodes in biopolymeric solution (135)208
Böttcher, C.J.F., see Pries, C.
Bottomley, R.H.
— and Lovig, C.A.
Subcellular distribution of rat aspartate carbamoyltransferase (148)588
Botts, J., see Duke, J.A.
Boublík, M., see Bartl, P.
Boucek, R.J.
—, Boucek, Jr., R.J., Hlavackova, V. and Dietrich, L.S.
Tryptophan metabolism during the mid-period of embryonic development (chick) (141)473
—, see Woesnner, Jr., J.F.
Boucek, Jr., R.J., see Boucek, R.J.
Bouchard, P., see Lyman, R.L.
Boucrot, Ph.
— and Clément, J.
Localization of exogenous and endogenous fatty acids in triglyceride molecules from rat lymphatic chylomicrons after a diet containing [^3H]oleic acid and [^{14}C]stearic acid (106)414
Bouma, J.M.W.
— and Gruber, M.
Intracellular distribution of cathepsin B and cathepsin C in rat liver (113)350
Bourd, G.I., see Gershanovitch, V.N.
Bourgès, M.C.
—, Small, D.M. and Dervichian, D.G.
Biophysics of lipidic associations. II. The ternary systems cholesterol–lecithin–water (137)157;
Biophysics of lipid associations. III. The quaternary systems lecithin–bile salt–cholesterol–water (144)189
—, see Small, D.M.
Bourguet, J.
— et Morel, F.
Independance des variations de perméabilité à l'eau et au sodium produites par les hormones neurohypophysaires sur la vessie de grenouille (135)693
Bourillon, R.
—, Meyer, D.M. et Dabat, M.T.
Isolement et structure d'un acetylpeptide de l'orosomucoide (111)331
— et Vernay, J.L.
Deux glycopeptides à hydroxyproline dans l'urine humaine normale (117)319
Boursnell, J.C.
— and Nelson, M.
Studies on boar seminal plasma proteins. II. An investigation on the heat-coagulable component ("Fraction A") (104)181
—, Nelson, M. and Cole, D.M.
Boar seminal plasma proteins. III. Fractionation by gel filtration, ion exchange and other means (117)134
—, see McIntosh, J.E.A.; see Nelson, M.; see Rottenberg, D.A.
Bové, J.M., see Goffeau, A.
Bowen, T.J.
—, Happold, F.C. and Taylor, B.F.
Studies on adenosine-5'-phosphosulphate reductase from Thiobacillus denitrificans (118)566
Bowman, R.D.
— and Mumma, R.O.
The lipids of Pythium ultimum (144)501
Bowness, J.M.
Hyaluronidase assay using a chondroitin-sulphate substrate (101)26
Boyd, G.S., see Eastwood, M.A.; see Hutton, H.R.B.
Boyd, J.W.
The extraction and purification of two isoenzymes of L-aspartate:2-oxoglutarate aminotransferase (113)302;
The rates of disappearance of L-lactate dehydrogenase isoenzymes from plasma (132)221;
The disappearance of ^{14}C-labelled isoenzyme 5 of L-lactate dehydrogenase from plasma (146)590
Boyer, J.
L'activité lipolytique du tissu adipeux. I. Mesures potentiométriques dans un

extrait brut de tissu adipeux de rat (137)59
—, see Talalay, P.
Boyle, C., see Field, J.B.
Brachet, J., see Bibring, T.; see Burny, A.; see Heilporn-Pohl, V.
Brada, Z., see Doležhalová, V.
Bradford, R.H., see Capps, J.C.
Bradford, R.M., see Breitman, T.R.
Bradley, A., see Pfrogner, N.
Bradley, D.F., see Merril, C.R.; see Stone, A.L.; see Winkelman, J.W.
Bradley, J.
– and Williams, E.J.
Voltage-controllable negative differential resistance in Nitella translucens (135)1078
Bradley, R.M.
Improved method for the determination of long-chain fatty acid amides (106)417
—, see Brady, R.O.; see Kampine, J.P.
Brady, M.
– and Higgins, J.A.
The properties of the lipoprotein lipases of rat heart, lung and adipose tissue (137)140
Brady, R.O.
—, Scow, R.O., Urgoiti, E. and Bradley, R.M.
Effect of pancreatectomy on fatty acid synthesis in liver of fasted rats (106)241
—, see Kampine, J.P.
Brady, T.G.
– and O'Sullivan, M.
The effect of pH, urea and guanidine on adenosine deaminase isolated from bovine mucosa (132)127
Bragança, B.M.
—, Divekar, A.Y. and Vaidya, N.R.
Defective transport of aminopterin in relation to development of resistance in Yoshida sarcoma cells (135)937
—, Patel, N.T. and Badrinath, P.G.
Isolation and properties of a cobra venom factor selectively cytotoxic to Yoshida sarcoma cells (136)508
—, see Divekar, A.Y.
Braly, K.L., see VandenHeuvel, W.J.A.
Brand, F.C., see Alexander, R.B.
Brand, R., see Bresnick, E.
Brandes, D., see Bertini, F.
Brandes, R.
– and Shapiro, B.
Inhibition of phosphatidic acid phosphatase by palmitoyl-CoA (137)202
Brandt, A.E.
– and Lands, W.E.M.
The effect of acyl group composition on the rate of acyltransferase-catalyzed synthesis of lecithin (144)605
Brandt, J., see Peck, W.A.
Braun, R.
Separation of bases, nucleosides and nucleotides on Sephadex G-10 (142)267; Separation of nucleosides on Sephadex G-10 (149)601
—, Mittermayer, C. and Rusch, H.P.
Sedimentation patterns of pulse-labeled RNA in the mitotic cycle of Physarum polycephalum (114)27; RNA synthesis in vivo in the synchronously dividing Physarum polycephalum studied by cell fractionation (114)527
—, see Mittermayer, C.
Brawerman, G.
—, Biezunski, N. and Eisenstadt, J.
Sedimentation characteristics of template RNA from rabbit reticulocytes and rat liver (103)201
—, see Hadjivassiliou, A.
Bray, R.C., see Hart, L.I.
Brdar, B.
—, Drakulić, M. and Kos, E.
On the simultaneous resynthesis of DNA and 50-S ribosomal RNA in ultraviolet-irradiated Escherichia coli (119)362
Breitman, T.R.
– and Bradford, R.M.
The absence of deoxyriboaldolase activity in a thymineless mutant of Escherichia coli strain 15: A possible explanation for the low thymine requirement of some thymineless strains (138)217
Bremer, J.
Acylcarnitines on metabolism of pyruvate in rat heart mitochondria (104)581; Comparison of acylcarnitines and pyruvates as substrates for rat-liver mitochondria (116)1
—, see Bøhmer, T.; see Farstad, M.
Brendel, K.
– and Bressler, R.
The resolution of (±)-carnitine and the synthesis of acylcarnitines (137)98
Brenner, R.R.
—, De Tómas, M.E. and Peluffo, R.O.
Effect of polyunsaturated fatty acids on the desaturation in vitro of linoleic into γ-linoleic acid (106)640
– and Peluffo, R.O.
Inhibitory effect of docosa-4,7,10, 13,16,19-hexaenoic acid upon the oxidative desaturation of linoleic acid into γ-linoleic acid and of α-linolenic into octadeca-6,9,12,15-tetraenoic acid (137)184
—, see Mercuri, O.; see Nervi, M.A.
Bresler, S.
—, Grajevskaja, R., Kirilov, S., Saminski, E. and Shutov, F.
Peptidyl-tRNA: An intermediate in protein biosynthesis (123)534
Bresnick, E.
—, Brand, R. and Knight, J.A.
RNA biosynthesis in methylcholanthrene-treated rats (114)227
– Knight, J.A. and Madix, J.C.
Polyribosomal patterns in rat liver after the administration of 3-methylcholanthrene (119)624
—, Lanclos, K. and Gonzales, E.
Biosynthesis of RNA in the liver of the rat fetus, in vivo (108)568
—, Sage, J. and Lanclos, K.
Ribonuclease activity in hepatic nuclei during development (114)631
Bressler, R.
– and Wittels, B.
Diphtheria toxin on carnitine metabolism in the heart (104)39
—, see Brendel, K.; see Corredor, C.; see McLeod, M.E.
Breuer, H., see Dahm, K.; see Döllefeld, E.; see Stárka, L.
Breuning, G.

Breuning, G. (continued)
— and Bock, R.M.
Covalent integrity and molecular weights of yeast rRNA components (149)377
Brewer, E.N.
—, DeVries, A. and Rush, H.P.
DNA synthesis by isolated mitochondria of Physarum polycephalum (145)686
Briantais, J.M.
Rétablissement du lien entre deux structures chloroplastiques par action du Triton X-100 (143)650
Brice, C.B.
— and Kornberg, H.L.
Location on the chromosome of Escherichia coli of a gene specifying phosphopyruvate synthase activity (136)412
Bricteux-Gregoire, S.
—, Schyns, R. et Florkin, M.
Structure des peptides libérés au cours de l'activation du trypsinogène de mouton (127)277
Briehl, R.W., see Okazaki, T.
Briggs, W.R., see Butler, W.L.
Brighenti, L.
—, Ottolenghi, C., Passerini, L. and Barnabei, O.
Acetylcholine control of amylase activity in the isolated perfused rat liver (130)272
Brimacombe, R.L.C.
The secondary structure of N-methylated derivatives of polycytidylic acid (142)24
Brindley, D.N.
— and Hübscher, G.
Intracellular distribution of the enzymes catalyzing the biosynthesis of glycerides in the intestinal mucosa (106)495;
The effect of chain length on the activation and subsequent incorporation of fatty acids into glycerides by the small intestinal mucosa (125)92
—, Smith, M.E., Sedgwick, B. and Hübscher, G.
The effect of unsaturated fatty acids and the particle-free supernatant on the incorporation of palmitate into glycerides (144)285
Brinster, R.L.
Lactate dehydrogenase activity in the preimplanted mouse embryo (110)439;
Lactate dehydrogenase activity in the preimplantation rabbit embryo (148)298
Briquet, M.V.
—, Decallonne, J.R., Leblus, R.G. et Wiaux, A.L.
Modification de taux de synthèse de RNAs végétaux par des dérives de l'acide phénylacétique. Influence du noyau pénicilline (149)387
Brishammar, S.
— and Philipson, L.
Purification and properties of a non-specific hemagglutination inhibitor from human serum against Picornaviruses (127)140
Briskey, E.J.
—, Seraydarian, K. and Mommaerts, W.F.H.M.
The modification of actomyosin by α-actinin. II (133)412;
III (133)424
—, see Seraydarian, K.; see Sink, J.D.
Bristol, G.
— and Schroepfer, Jr., G.J.
Concerning the biosynthesis of tuberculostearic acid (125)389
Britton, G., see Williams, R.J.H.
Britton, H.G.
Erythritol in foetal sheep blood: Site of formation (148)801
—, Huggett, A.St.G. and Nixon, D.A.
Carbohydrate metabolism in the sheep placenta (136)426
Broberg, P.L.
— and Smith, L.
The cytochrome system of Bacillus megaterium KM. The presence and some properties of two CO-binding cytochromes (131)479
Brock, T.D., see Vidaver, A.K.
Brockerhoff, H.
—, Hoyle, R.J. and Hwang, P.C.
Incorporation of fatty acids of marine origin into triglycerides and phospholipids of mammals (144)541
—, Hoyle, R.J. and Wolmark, N.
Positional distribution of fatty acids in triglycerides of animal depot fats (116)67
—, see Yurkowski, M.
Brockman, R.W., see Bennett, Jr., L.L.
Brodie, H.J., see Townsley, J.D.
Brody, K.R., see Spencer, R.P.
Brody, M.
— and Brody, S.S.
The existence of chlorophyll aggregates at room temperature in vivo and in vitro (112)54
Brody, S.S., see Brody, M.
Broekhuysen, J.
—, Baudine, A. and Deltour, G.
Effect of carnitine on acidosis and ketosis induced by lipid perfusions in dogs during starvation (106)207
Bromer, W.W.
— and Chance, R.F.
Preparation and characterization of desoctapeptide-insulin (133)219
—, see Mercola, D.A.
Bronk, J.R.
— and Parsons, D.S.
The polarographic determination of the respiration of the small intestine of the rat (107)397
Bronson, P., see Shulman, S.
Brookes, V.J.
Thymidine kinase and thymidylate kinase in silkworm, Anteraea pernyi (119)268
Brooks, C.J.W.
—, Harland, W.A. and Steel, G.
Squalene, 26-hydroxycholesterol and 7-ketocholesterol in human atheromatous plaques (125)620
—, see Gardiner, W.L.
Brooks, S.C.
—, Horn, L. and Horwitz, J.P.
Conjugation of estrogen metabolites by liver slices (104)250
—, see De Loecker, W.C.
Broom, A.H., see Bader, H.
Broome, J.D.
— and Schwartz, J.H.
Differences in the production of L-asparagine in asparaginase-sensitive and

resistant lymphoma cells (138)637
Brosemer, R.W.
– and Marquardt, R.R.
Insect extramitochondrial glycerophosphate dehydrogenase. II. Enzymic properties and amino acid composition of the enzyme from honeybee (Apis mellifera) thoraces (128)464
– and Veerabhadrappa, P.S.
Pathway of proline oxidation in insect flight muscle (110)102
–, see Marquardt, R.R.
Brossard, M., see Erbland, J.F.
Brotsky, E., see McManus, I.R.
Broude, N.E., see Kochetkov, N.K.
Brouillet, N., see Félix, F.
Brown, A.D., see Health, M.J.; see Soo-Hoo, T.S.
Brown, B., see Letters, R.
Brown, B.L.
– and Reith, W.S.
A method of radio-iodination on a sub-microgram scale. The preparation and stability of ^{131}I- and ^{125}I-labelled 3-mono-iodotyrosine and 3,5-diiodotyrosine of very high specific activity (148)423
Brown, C.B.
–, Russel, J.R. and Howland, J.L.
Antimycin-insensitive respiration in beef heart mitochondria (110)640
–, see Civen, M.
Brown, D.H.
– and Illingworth Brown, B.
Action of a muscle branching enzyme on polysaccharides enlarged from UDP-[^{14}C]-glucose (130)263
–, see Illingworth Brown, B.
Brown, D.M.
–, see Illingworth Brown, B.
Brown, D.M.
– and Stewart, J.C.
The structure of triphosphoinositide from beef brain (125)413
–, see Pierce, J.G.; see Zomzely, C.E.
Brown, E.G.
– and Mangat, B.S.
UDP-fructose in germinating pea seeds (148)350
– and Silver, A.V.
The natural occurrence of a uracil 5-peptide and its metabolic relationship to guanosine 5'-monophosphate (119)1
Brown, F.
–, Martin, S.J. and Underwood, B.
A study of the kinetics of protein and RNA synthesis induced by foot-and-mouth disease virus (129)166
– and Wild, T.F.
The effect of heat on the structure of foot-and-mouth disease virus and the viral RNA (119)301
Brown, G.M., see Burg, A.W.
Brown, R.G.
–, Button, G.M. and Smith, J.T.
Effect of sulfate deficiency on the mechanical strength of the rat's aorta (101)361
Brown, H.D.
A characterization of the ouabain sensitivity of heart microsomal ATPase (120)162
Brown, J.D., see Friedel, R.O.
Brown, J.S.
The fluorescence emission spectra of chlorophyll a forms from Euglena (120)305; Fluorometric evidence for the participation of chlorophyll a-695 in System 2 of photosynthesis (143)391
Brown, J.W., see Hahn, G.A.
Brown, K.D.
– and Doy, C.H.
Control of three isoenzymic 7-phospho-2-oxo-3-deoxy-D-arabino-heptonate-D-erythrose-4-phosphate lyases of Escherichia coli W and derived mutants by repressive and "inductive" effects of the aromatic amino acids (118)157
–, see Doy, C.H.
Brown, K.M.
– and Moog, F.
Invertase activity in the intestine of the developing chick (132)185
Brown, P.K., see Wittenberg, J.B.
Brown, R.E., see Dubin, D.T.
Brown, R.H., see Lynn, W.S.
Brown, R.K., see Satoh, P.S.
Brown, T.O., see Heimberg, M.
Brown, W.D., see Goldbloom, D.E.
Brudenell-Woods, J., see Conyers, R.A.J.
Brummelová, V., see Škvařil, F.
Brümmer, W., see Knappe, J.
Brun, D., see Nunez, J.
Bruner, R.
– and Vinograd, J.
The evaluation of standard sedimentation coefficients of NaRNA and NaDNA from sedimentation velocity data in concentrated NaCl and CsCl solutions (108)18
Brunkhorst, W.K.
Binding of cortisol by components of the 5.1P fraction obtained from calf thymus (130)553
Brunner, J.R., see Bowben, R.M.
Brunngraber, E., see Abood, L.G.
Brunori, M., see Antonini, E.
Brux, B., see Kluge, H.
Bryła, J.
–, Kaniuga, Z. and Frackowiak, B.
On the nature of endogenous substrate in rat liver mitochondria (143)285
Bryne, W.L., see Fallon, H.J.
Bubela, B.
– and Holdsworth, E.S.
Amino acid uptake, protein and nucleic acid synthesis and turnover in Bacillus stearothermophilus (123)364; Protein synthesis in Bacillus stearothermophilus (123)376
Bublitz, C.
The properties of a glycyl-soluble RNA synthetase from chick embryo (113)158; Substrate specificity of liver and kidney glucuronate reductases (113)616; Some properties of proline-sRNA synthetase from rat liver (128)165
Bucana, C., see Nair, P.P.
Bucci, E., see Antonini, E.; see Cassoly, R.
Buchanan, J.L., see Leventer, L.L.
Bucher, N.L.R.
– and Swaffield, M.N.
Rate of incorporation of [6-^{14}C]orotic acid into UTP and CTP and nuclear RNA regenerating rat liver (108)551; Nucleotide pools and [6-^{14}C]orotic acid incorporation in early regenerating rat liver (129)445

Bucke, C.
—, Leech, R.M., Hallaway, M. and Morton, R.A.
The taxonomic distribution of plastoquinone and tocopherolquinone and their intracellular distribution in leaves of Vicia faba (112)19
—, see Baldry, C.W.
Buckhold, B.
—, Adams, R.B. and Gregg, E.C.
Osmotic adaptation of mouse lymphoblasts (102)600
Buddecke, E.
— and Hoefele, O.
pH-dependent activation of β-D-glucuronidase by N-acetyl-β-D-glucosaminidase (132)194
— see Bhargava, A.S.
Budowsky, E.I.
—, Drushinina, T.N., Eliseeva, G.I., Gabrielyan, N.D., Kochetkov, N.K., Novikova, M.A., Shibaev, V.N. and Zhdanov, G.L.
Synthetic analogues of UDP-glucose: Biochemical and chemical studies. The secondary structure of nucleoside diphosphate sugars (122)213
—, see Grachev, M.A.; see Kochetkov, N.K.
Budzyński, A.Z.
—, Stahl, M., Kopeć, M., Latallo, Z.S., Wegrzynowicz, Z. and Kowalski, E.
High molecular weight products of the late stage of fibrinogen proteolysis by plasmin and their structural relation to the fibrinogen molecule (147)313
Bueding, E.
—. Butcher, R.W., Hawkins, J., Timms, A.R. and Sutherland, Jr., E.W.
The effect of epinephrine on cyclic adenosine 3',5'-phosphate and hexose phosphates in intestinal smooth muscle (115)173
Buetow, D.E.
— and Mego, J.L.
Hydroxyurea inhibition of greening, macromolecule synthesis and cell division in Euglena gracilis (134)395
—, see Bertini, F.
Bukrinskaya, A.G.
— and Vladimirzeva, E.A.
Isolation of Sendai virus RNA from infected cells by the method of thermic fractionation (119)219
Bulen, W.A., see Burns, R.C.
Bulgin, J.J.
— and Vinson, L.J.
The use of differential thermal analysis to study the bound water in stratum corneum membranes (136)551
Buluk, K.
— and Zuch, A.
The possibility of proteolytic activation of the fibrin-stabilizing factor (147)593
Bump, S., see Deyl, Z.
Bumpus, F.M., see Khairallah, P.A.
Burg, A.W.
— and Brown, G.M.
Biosynthesis of folic acid. VI. Enzymatic conversion of C-8 of GTP to formic acid (117)275
Bürgi, H.
—, Müller, W.A., Humbel, R.E., Labhart, A. and Froesch, E.R.
Non-suppressible insulin-like activity of human serum. I. Physicochemical properties, extraction and partial purification (121)349
—, see Froesch, E.R.
Burgos, J.
— and Redfearn, E.R.
The inhibition of mitochondrial $NADH_2$ oxidation by rotenoids (110)475
Burgoyne, L.A.
— and Symons, R.H.
DNA component of cytochrome b_2. II. Specificity of its association with the enzyme and its origin from high molecular weight DNA (129)502
—, see Nicholls, R.G.
Burka, E.R.
Destruction of reticulocyte ribosomes by deoxycholate (145)506
Burkat, R.K., see Roberts, P.S.
Burke, D.C., see Skehel, J.J.
Burks, A.L., see Oratz, M.
Burma, D.P., see Mitra, S.K.
Burnett, F.F., see Stetten, M.R.
Burnett, G.H.
— and Conklin, R.L.
Purification and properties of protein phosphokinase from bovine red blood cell membranes (135)358
Burns, R.C.
— and Bulen, W.A.
ATP-dependence hydrogen evolution by cell-free preparations of Azotobacter vinelandii (105)437
Burny, A.
— et Marbaix, G.
Isolement du RNA messager des réticulocytes de lapin (103)409
—, Marbaix, G., Quertier, J. and Brachet, J.
Demonstration of functional polyribosomes in nucleate and anucleate fragments of sea-urchin eggs following parthenogenetic activation (103)526
—, see Bollen, A.; see Huez, G.; see Lebleu, B.; see Marbaix, G.
Burr, H.E., see Flamm, W.G.
Burris, R.H., see Klucas, R.V.; see Lockshin, A.; see Munson, T.O.
Burstein, C., see Gero, S.D.
Burstein, S.
Studies on the solubilization and purification of rat-liver microsomal steroid sulfatase (146)529
Busby, W.F.
Sulfopropanediol and cysteinolic acid in the diatom (121)160
Busch, H., see Floyd, L.; see Higashi, K.; see Jacob, S.T.; see Muramatsu, M.; see Ro, T.S.; see Steele, W.J.; see Villalobos, Jr., J.G.
Bustamante, Y., see Del Castillo, L.M.
Butcher, F.R.
— and Serif, G.S.
Pyridine nucleotides. III. Response of dog thyroid pyridine nucleotides to hormonal control (141)8
Butcher, R.W., see Bueding, E.
Butler, W.L.
Development of photosynthetic Systems 1 and 2 in a greening leaf (102)1

– and Briggs, W.R.
The relation between structure and pigments during the first stages of proplastid greening (112)45
–, see Cramer, W.A.
Button, G.M., see Brown, R.G.
Byers, S.O.
– and Friedman, M.
Transport of cholesterol during phosphatide-induced hypercholesterolemia (125)157
Bygrave, F.L., see Shaw, D.R.D.
Byrt, P.N.
– and Glanvill, S.
Effect of isoprenaline on the secretion of sialoproteins from rat salivary glands (148)215

C

Cabello, J.
–, Prajoux, V. and Plaza, M.
Immunodiffusion studies on human liver and erythrocyte arginases (105)583
–, see Bascur, L.
Cabib, E., see Rothman, L.B.
Cagan, R.H., see Kometiani, Z.
Cain, C.E.
–, Bell, Jr., O.E., White, Jr., H.B., Sulya, L.L. and Smith, R.R.
Hydrocarbons from human meninges and meningiomas (144)493
–, see Bell, Jr., O.E.
Caldwell, B.V., see Péron, F.G.
Caldwell, R.C.
– and Pigman, W.
Carbohydrates of human submaxillary glycoprotein in secretors and non-secretors of blood group substances (101)157
Calendi, E.
–, Di Marco, A., Reggiani, M., Scarpinato, B. and Valentini, L.
Physicochemical interactions between daunomycin and nucleic acids (103)25
–, see Rusconi, A.
Calissano, P., see Angeletti, P.U.; see Angeletti, R.A.
Calvin, M., see Steinman, G.
Camerino, P.W., see King, T.E.
Cameron, J.A., see Vincent, W.F.
Cameron, J.S., see Garratt, C.J.
Cammarano, P.
–, Melli, M. and Novelli, G.D.
Poly-U-stimulated incorporation. A comparison of normal and regenerating liver (108)329
–, see Pfuderer, P.
Campbell, B.J.
–, Lin, Y.-C., Davis, R.V. and Ballew, E.
The purification and properties of a particulate renal dipeptidase (118)371
–, Schneider, A.L., Howe, D.N. and Durand, D.P.
Structural aspects of ovine α_1-glycoprotein, an inhibitor of Newcastle disease virus (148)137
Campbell, J.J.R., see Tomlinson, C.A.
Campbell, J.N., see Berry, S.A.
Campo, R.D.
– and Tourtellotte, C.D.
The composition of bovine cartilage and bone (141)614
–, Wengert, Jr., P.A., Tourtellotte, C.D. and Kirsch, M.A.
A comparative study of the fixation of ^{75}Se and ^{35}S onto protein–polysaccharides of bovine costal cartilage (124)101
Canady, M.R., see O'Brien, P.J.
Cañedo, L., see Mora, J.
Canellakis, E.S., see Kammen, H.O; see Klemperer, H.G.
Canessa, M., see Zamudio, I.
Canning, L.
– and Clark Griffin, A.
Specificity in the transfer of aminoacyl-sRNA to microbial, liver, and tumor ribosomes (103)522
Canning, R.E., see Popp, R.A.
Cannon, M.
End-group instability of sRNA of Escherichia coli in vivo (129)221
–, see Mirza, M.A.A.
Cantrell, J., see Pruitt, K.M.
Capani, F., see Angeletti, P.U.
Cape, M., see Decroly, M.
Capeillere, C., see Iwatsubo, M.
Caplan, A.I.
– and Carafoli, E.
Effect of Sr^{2+} on swelling and ATP-linked contraction of mitochondria (104)317
Capps, J.C.
–, Shetlar, M.R. and Bradford, R.H.
Hexosamine metabolism. I. The absorption and metabolism, in vivo, of orally administered D-glucosamine and N-acetyl-D-glucosamine in the rat (127)194;
Hexosamine metabolism. II. Effect of insulin and phlorizin on the absorption and metabolism, in vivo, of D-glucosamine and N-acetyl-D-glucosamine in the rat (127)205
Caputto, R., see Barra, H.S., see Ryan, L.C.
Carafoli, E., see Caplan, A.I.
Caravaggio, L.L., see Bonting, S.L.
Carbonara, A.O., see Masson, P.L.
Carchman, R., see Weinstein, I.B.
Cardell, Jr., R.R.
Subcellular alteration in rat liver following hypophysectomy (148)539
Cardinale, G.J.
– and Abeles, R.H.
Mechanistic similarities in the reactions catalyzed by dioldehydrase and methylmalonyl-CoA mutase (132)517
Cardini, C.E., see Frydman, R.B.
Carell, E.F.
– and Kahn, J.S.
Purification and properties of a Mg^{2+}-dependent ATPase from chloroplasts of Euglena gracilis (131)571
Carillo-Castañeda, G.
– and Ortega, M.V.
Effects of inorganic phosphate upon Salmonella typhimurium phosphatase activities (146)535
Carlisky, N.J., see Lew, V.L.
Carminatti, H., see Jimenez de Asua, L.
Carmody, S.E., see Lewis, J.P.
Carney, S.A.
–, Lawrence, J.C. and Ricketts, C.R.
Incorporation of [^{14}C]proline by mammalian skin in tissue culture (111)154;
The effect of light from a ruby laser on the metabolism of skin in tissue culture (148)525
Carr, D.O.
–, Amelunxen, R.E. and Grisolia, S.

Coenzyme binding to glyceraldehyde-3-phosphate dehydrogenase after modification by substrate and coenzyme (110)507
–, see Amelunxen, R.E.
Carpenter, W.J.G.
– and Cherry, J.H.
Effects of benzyladenine on accumulation of ^{32}P into nucleic acids of peanut cotyledons (114)640
Carr, H.S., see Rosenkranz, H.S.
Carr, N.G.
The occurrence of poly-β-hydroxybutyrate in the blue-green alga, Chlorogloea fritschii (120)308
–, see Hood, W.
Carretti, D., see Cennamo, C.
Carrier, W.L.
– and Setlow, R.B.
Excision of pyrimidine dimers from irradiated DNA in vitro (129)318
Carrillo, M., see Mandelbaum, F.R.
Carroll, J.J.
– and Pritham, G.H.
Effects of sex hormones and of potassium salts of fatty acids on the biosynthesis in vitro of cholesterol from [2-^{14}C]mevalonic acid (115)320
Carstensen, E.L., see Einolf, Jr., C.W.
Carta, S., see Tentori, L.
Carter, J.R., see Moore, H.C.
Carter, Jr., J.R.
Hepatic lipase in the rat (137)147
Cartier, P., see Chedru, J.
Cartouzou, G.
–, Greif, R., Depieds, R. and Lissitzky, S.
Preparation and some properties of sheep thyroid polysomes (138)80
Cartwright, G.E., see Lewis, M.
Cartwright, L.N., see Skehel, J.J.
Carty, R.P.
– and Kirschenbaum, D.M.
Papain-catalyzed synthesis of hippuryl anilide. II. Variation of rate with substrate concentration and determination of the equilibrium constant (110)399
Carubelli, R.
–, Bhavanandan, V.P. and Gottschalk, A.
Glycoproteins. XI. The O-glycosidic linkage of N-acetylgalactosamine to seryl and threonyl residues in ovine submaxillary gland glycoprotein (101)67
–, see Ryan, L.C.
Carvalho, I.F.
– and Diniz, C.R.
Kinin-forming enzyme (kininogenin) in homogenates of rat kidney (128)136
Carver, M.J.
Disturbances by galactose of the free amino acids of fetal rat brain (130)514
Casely-Smith, J.R., see Charnock, J.S.
Casimir, J., see Alderweireldt, F.; see Jadot, J.
Casjens, S.R.
– and Morris, A.J.
Selective inhibition of protein asembly by gougerotin (108)677
Casola, L., see Giuditta, A.
Casselden, R.J., see Walters, C.J.
Cassens, R.G., see Sink, J.D.
Cassoly, R.
–, Bucci, E., Iwatsubo, M. and Banerjee, R.
Functional studies on human semihemoglobin (133)557
–, see Banerjee, R.
Castagna, M.
Incorporation apparente de thymidine dans les préparations de foie de rat in vitro (138)598
Castañeda, M.
–, Martuscelli, J. and Mora, J.
The catabolism of L-arginine by Neurospora crassa (141)276
Castañeda-Agulló, M.
– and Del Catillo, L.M.
Dielectric effects and transesterification reactions catalyzed by trypsin (139)398
–, see Del Castillo, L.M.
Castles, J.J., see Wool, I.G.
Catalano, C., see Siekevitz, P.
Cataldi, M.A.
– and Stoppani, A.O.M.
Purification and properties of fumarate hydratase from baker's yeast (118)631
Cathcart, E.S.
–, Shirahama, T. and Cohen, A.S.
Isolation and identification of a plasma component of amyloid (147)392
Cathey, G.M.
– and Klebanoff, S.J.
Polyuridylic acid-directed phenylalanine incorporation by Lactobacillus acidophilus: Effect of puromycin at acid pH (145)806
Cavadore, J.C., see Previero, A.
Cayen, M.N.
–, Tang, G. and Common, R.H.
Urinary conversion products of biochanin A and formononetin in the fowl (111)349
Cayeux, P.
–, Panijel, J. et Souleil, C.
Action des anticorps anti-RNA sur les ribosomes et les phages (108)605
–, see Panijel, J.; see Souleil, C.
Ceccarini, C.
The biochemical relationship between trehalase and trehalose during growth and differentiation in the cellular slime mold, Dictyostelium discoideum (148)114
Cedard, L., see Pasqualini, J.R.
Cederstrand, C.N.
– and Govindjee
Some properties of spinach chloroplast fractions obtained by digitonin solubilization (120)177
–, Rabinowitch, E. and Govindjee
Absorption and fluorescence spectra of spinach chloroplast fractions obtained by solvent extraction (120)247;
Analysis of the red absorption band of chlorophyll a in vivo (126)1
Cennamo, C.
– and Carretti, D.
Kinetic studies with L-threonine dehydratase from Salmonella typhimurium (122)371
–, Montecuccoli, G. and Bonaretti, G.
The NAD-specific isocitrate dehydrogenase from baker's yeast (110)195;
Anion and substrate inhibition and kinetic behavior of NAD^+-specific isocitrate dehydrogenase from baker's yeast (132)232
–, Montecuccoli, G. and König, G.
Inhibition of mitochondrial malate

Cennamo, C. (continued)
dehydrogenase by citrate (139)514
Cellarius, R.A.
– and Mauzerall, D.
A model for the photosynthetic unit. Photochemical and spectral studies on pheophytin a adsorbed onto small particles (112)235
Cepellini, R., see Parenti, F.
Cerbón, J.
Variations of the lipid phase of living microorganisms during transport process (102)449;
NMR studies on the water immobilization by lipid systems in vitro and in vivo (144)1
– and Sharpless, N.
Arsenic–lipid complex formation during sugar transport (126)292
Cerdá-Olmedo, E.
– and Hanawalt, P.C.
Macromolecular action of nitrosoguanidine in Escherichia coli (142)450
Cereijido, M., see Rotunno, C.A.
Cerletti, P.
–, Giordano, M.G., Giovenco, M.A., Barra, D. and Strom, R.
Role of phospholipids in succinate dehydrogenase (122)352
–, Giovenco, M.A., Giordano, M.G., Giovenco, S. and Strom, R.
Succinate dehydrogenase. I. Role of phospholipids (146)380
Chader, G., see DeVenuto, F.
Chaikoff, I.L., see Bartley, J.C.; see Ewald, W.; see Gan, J.C.; see Kumar, M.; see Lossow, W.J.; see Nataf, B.M.; see Pokrajac, N.; see Sabine, J.R.; see Shyamala, G.; see Singh, V.N.; see Werbin, H.
Chaix, P., see Labbe, P.; see Ohaniance, L.
Chakrabarty, A.M., see Basu, S.K.
Chakraverty, K., see Chaykin, S.
Chakravorty, M.
Mannitol-1-phosphate dehydrogenase from the extracts of L. plantarum (105)374
Chamberlain, J., see Jagarinec, N.
Chambers, P., see Hill, D.L.
Chambers, R.W., see Tomasz, M.
Chambert, J.R., see Rapoport, G.
Chambon, P.
–, Ramuz, M., Mandel, P. and Doly, J.
Inhibition of RNA polymerase by sodium polyethylene sulphonate (149)584
–, see Doly, J.
Chambron, J.
–, Daune, M. et Sadron, Ch.
Étude thermodynamique de l'inter-action de la proflavine avec DNA. I. Étude par équilibre de dialyse (123)306;
Étude thermodynamique de l'inter-action de la proflavine avec DNA. II. Étude de la dissociation du complexe DNA–proflavine par spectrophotométrie (123)319
Chan, H.W.-S.
– and Bassham, J.A.
Metabolism of ^{14}C-labeled glycolic acid by isolated spinach chloroplasts (141)426
Chan, P.C.
Reversible effect of sodium dodecyl sulfate on human erythrocyte membrane ATPase (135)53
–, see Walz, Jr., F.G.
Chance, B.
–, Horio, T., Kamen, M.D. and Taniguchi, S.
Kinetic studies on the oxidase systems of photosynthetic bacteria (112)1
–, see Terzuolo, C.A.; see Wilson, D.F.
Chance, R.E., see Bromer, W.W.
Chandan, R.C.
–, Parry, R.M. and Shahani, K.M.
Purification and some properties of bovine milk lysozyme (110)389
–, see Khan, I.M.
Chandler, J.L.R., see Ogasawara, N.
Chandrasekaran, K.S., see Ramachandran, G.N.
Chang, C.C., see Yang, C.C.
Chang, J.L., see Yamamoto, H.Y.
Chang, T.
–, Lewis, J. and Glazko, A.J.
Effect of S-(1,2-trans-dichlorovinyl)-L-cysteine on the transport of amino acids and glucose by everted segments of rat small intestine (135)244;
Effect of ethanol and other alcohols on the transport of amino acids and glucose by everted sacs of rat small intestine (135)1000
Chang, Y., see Morell, D.B.
Channing, C.P.
– and Villee, C.A.
Luteinizing hormone: Effects in uptake and metabolism of hexoses by luteinized rat ovaries (115)205;
Stimulation of cholesterol metabolism in the luteinized rat ovary by luteinizing hormone (127)1
Chantrenne, H., see Marbaix, G.; see Wérenne, J.
Chapeville, F., see Haenni, A.-L.
Chaplain, R.A.
The effect of Ca^{2+} and fibre elongation on the activation of the contractile mechanism of insect fibrillar flight muscle (131)385
Chapman, D.
–, Owens, N.F. and Walker, D.A.
Physical studies of phospholipids. II. Monolayer studies of some synthetic 2,3-diacyl-DL phosphatidyl-ethanolamines and phosphatidylcholines containing trans double bonds (120)148
–, see Leslie, R.
Chaproniere-Rickenberg, D.M.
– and Justus, J.T.
Ability of DNA from various organs of the axolotl, Ambystoma mexicanum, to prime RNA synthesis in vitro (129)326
Charalampous, F.C., see Chen, I.W.
Chargaff, E., see Karkas, J.D.; see Lin, H.J.; see Rudner, R.
Charles, A.M.
– and Suzuki, I.
Mechanism of thiosulfate oxidation by Thiobacillus novellus (128)510;
Purification and properties of sulfite: cytochrome c oxidoreductase from Thiobacillus novellus (128)522
Charles, M.
–, Gratecos, D., Rovery, M. et Desnuelle, P.
Le chymotrypsinogène A de porc. Purification et études de quelques propriétés (140)395
Charles, R.
–, Tager, J.M. and Slater, E.C.

Citrulline synthesis in rat-liver mitochondria (131)29
— and Van den Bergh, S.G.
Stimulation of mitochondrial reactions by high concentrations of atractyloside (131)393
Charnock, J.S.
—, Opit, L.J. and Casely-Smith, J.R.
Cation accumulation by microsomal Na^+ and K^+ activated ATPase (126)350
—, see Opit, L.J.
Chassy, B.M.
— and McCormick, D.B.
Coenzyme specificity of D-amino acid oxidase for the flavin moiety of FAD (110)91
—, Sugimori, T. and Suhadolnik, R.J.
The biosynthesis of the 6-deoxy-D-erythro-2,5-hexodiulose sugar of decoyinine (130)12
—, see Roth, J.A.
Chatagner, F., see Loiselet, J.
Chatterjee, S.K.
—, Das, H.K. and Roy, S.C.
DNA and the synthesis of protein in plant mitochondria. IV (114)349
Chaudhary, K.D.
—, Moorjani, S., Srivastava, U. and Lemonde, A.
Pentose phosphate cycle enzymes in Tribolium confusum Duval (Coleoptera) (148)569
—, Srivastava, U. and Lemonde, A.
Monoamine oxidase in Tribolium confusum Duval (Coleoptera) (132)290
Chaudhuri, S.
—, Doi, O. and Lieberman, I.
The increased rate of liver ribosome synthesis after partial hepatectomy (134)479
Chauvet, J.
—, Nouvel, G. et Acher, R.
Structure primaire d'un inhibiteur pancréatique de la trypsine (Inhibiteur de Kunitz et Northrop). I. Enchaînements N- et L-terminaux (115)121;
Structure primaire d'un inhibiteur pancréatique de la trypsine. II. Caractérisation des peptides résultant de l'hydrolyse trypsique (115)130
—, see Acher, R.
Chauvet, M.T., see Acher, R.
Chaykin, S.
—, Chakraverty, K., King, L. and Watson, J.G.
Tritium-labeled DPN^+ and TPN^+ (124)1
—, King, L. and Watson, J.G.
The reduction of DPN^+ and TPN^+ with sodium borohydride (124)13
—, see Murashige, K.
Cheatum, S.G.
—, Douville, A.W. and Warren, J.C.
Site specificity of bovine adrenal 3β-hydroxysteroid dehydrogenase and Δ^5-3-ketosteroid isomerase (137)172
— and Warren, J.C.
Purification and properties of 3β-hydroxysteroid dehydrogenase and Δ^5-3-ketosteroid isomerase from bovine corpora lutea (122)1
Chedru, J.
— et Cartier, P.
La perméabilité des globules rouges humains aux ions orthophosphates (126)500
Cheftel, R.I., see Got, R.
Chelack, W.S., see Petkau, A.
Chen, I.W.
— and Charalampous, F.C.
Studies on the mechanism of cyclization of glucose 6-phosphate to D-inositol 1-phosphate (136)568
Chen, J.S., see Angeletti, P.U.
Chen, R.F.
Fluorescence spectra of human serum albumin in the pH region of the N–F transition (120)169
Cheng, P-Y.
Ultraviolet rotary dispersion as a probe for the interaction between DNA and metal ions (102)314
Cheng, S.C.
— and Keynes, R.D.
Phosphate metabolism in the electric organ (143)249
Cherian, M.G.
— and Radhakrishnan, A.N.
Glycopeptide containing hydroxyproline and sarcosine in human urine (101)241
Cherrick, G.R.
— and Leevy, C.M.
Ethanol metabolism on levels of oxidized and reduced nicotinamide–adenine dinucleotide in liver, kidney and heart (107)29
Cherry, J.H., see Carpenter, W.J.G.
Chersi, A.
—, Bernardi, A. and Bernardi, G.
Studies on acid hydrolases. II. Isolation and properties of spleen acid phosphomonoesterase (129)12
—, see Bernardi, G.
Chesters, J.K.
Protein synthesis by cell-free extracts of Crithidia oncopelti (114)385
Cheung, W.Y.
Adenosine 3',5'-phosphate and oscillations of DPNH in a cell-free extract of Saccharomyces carlsbergensis (115)235
Chevallier, J.
— et Yon, J.
Contribution à l'étude de l'activité amidasique de la trypsine (122)116
Chevallier, M.-R., see Bach, M.L.
Chiancone, E.
—, Vecchini, P., Forlani, L., Antonini, E. and Wyman, J.
Dissociation of hemoglobin from different animal species into subunits (127)549
—, Wittenberg, J.B., Wittenberg, B.A., Antonini, E. and Wyman, J.
Combination of haptoglobin 2-2 with the oxy and deoxy forms of human haemoglobin (117)379
—, see Forlani, L.
Chichester, C.O., see Yamamoto, H.Y.
Chino, H.
—, Sudo, A. and Harashima, K.
Isolation of diglyceride-bound lipoprotein from insect hemolymph (144)177
Chiu, C.S.
—, Su, S. and Russell, P.J.
Adenylate kinase from baker's yeast. I. Purification and intracellular location (132)361
Chiu, T.H.
—, Otto, R., Power, J. and Feingold, D.S.

Chiu, T.H. (continued)
An improved preparation of L-rhamnulose 1-phosphate (127)249
Chládek, S., see Rychlík, I.
Cho, D.H.
—, Parks, L. and Zweig, G.
Photoreduction of quinones by isolated spinach chloroplasts (126)200
Cho, F.
—, Spencer, J. and Govindjee
Emission spectra of Chlorella at very low temperatures (−269 to −196°) (126)174
Cho, K.Y.
— and Sallon, M.R.J.
Fatty acid composition of bacterial membrane and wall lipids (116)73
Chowdhury, J.R.
— and Datta, A.G.
The growth inhibitory effect of erythrose on Vibrio cholerae (104)296
Chowdhury, T.K.
— and Snell, F.M.
Further observations on the intracellular electrical potential in frog skin and toad bladder (112)581
Christen, P.J.
— and Van den Muysenberg, J.A.C.M.
Enzymatic isolation and fluoride catalysed racemisation of optically active Sarin (110)217
Christensen, H.N.
— and Liang, M.
On the nature of the "non-saturable" migration of amino acids into Ehrlich cells and into rat jejunum (112)524
—, see Wheeler, K.P.
Christianson, D.D.
—, Sinclair, H.B. and Paulis, J.W.
Chromatography of nucleotides in extracts containing salts on layers of anionic, microcrystalline cellulose (121)412
Chulavatnatol, M., see Adams, J.B.
Chung, A.E.
Metabolism of cyclopropane fatty acids: Oxidation of cis-9,10-methylene hexadecanoic and cis-9,10-methylene octadecanoic acids by rat-liver mitochondria (116)205
Chung, D.
— and Li, C.H.
The synthesis of D-tryptophanyl-D-arginyl-D-phenylalanyl-D-histidyl-D-glutamic acid and its effect on melanotropic activity (136)570
Churchich, J.E.
Fluorescence properties of pyridoxamine 5-phosphate (102)280;
Tryptophan residues in native and reoxidized muramidase: Luminescence properties (120)406;
Fluorescence changes in ultraviolet-irradiated muramidase (126)606;
The binding of NADH by glutamate dehydrogenase as measured by polarization of fluorescence (147)32;
The rotational relaxation time of aspartate aminotransferase (147)511
— and Harpring, L.
The effect of 8 M urea on fluorescence and activity properties of aspartate aminotransferase (105)575
Chvapil, M.
—, Hurych, J., Ehrlichová, E. and Cmuchalová, B.
Effects of various chelating agents, quinones, diazoheterocyclic compounds and other substances on proline hydroxylation and synthesis of collagenous and non-collagenous proteins (140)339
—, see Hurych, J.
Cifonelli, J.A., see Varadi, D.P.
Čihák, A.
— and Šorm, F.
Metabolic transformations of 5-azaorotate: Cause of marked inhibition of orotidine-5'-phosphate decarboxylase (149)314
—, Veselý, J. and Šorm, F.
Incorporation of 5-azacytidine into liver RNA's of leukemic mice sensitive and resistant to 5-azacytidine (108)516;
Complete inhibition by 5-azacytidine of hormonal induction of tryptophan pyrrolase (134)486
Cilento, G.
—, Azarraga, L. and Smith, F.J.
Emission from 3,5-diiodotyrosine (102)621
— and Zinner, K.
Aerobic oxidations catalyzed by catechol (120)84;
Oxygen activation. II. The effect of catecholamines (143)88;
Oxygen activation. III. The role of monoprotonated p-phenylenediamines (143)93
Cinco, G., see Peña, A.
Cirković, T., see Nunez, J.
Cisternino, M., see Palmieri, F.
Citarella, R.V., see Wohlhieter, J.A.
Citri, N., see Zyk, N.
Civen, M.
—, Brown, C.B. and Hilliard, J.
RNA and protein synthesis in ovary (114)127
Clamp, J.R.
—, Dawson, G. and Hough, L.
The simultaneous estimation of 6-deoxy-L-galactose, (L-fucose), D-mannose, D-galactose, 2-acetamido-2-deoxy-D-glucose (N-acetyl-D-glucosamine) and N-acetyl-neuraminic acid (sialic acid) in glycopeptides and glycoproteins (148)342
—, see Austad, W.
Clark, D.J.
Instability of inducer-specific repressor for β-galactosidase in Escherichia coli (110)554
Clark, E.E.
—, Poillon, W.N. and Dawson, C.R.
Ascorbate oxidase. I. Oxidase activity, copper content and conformational changes (118)72;
Ascorbate oxidase. II. Sedimentation velocity studies comparing the native, reduced, inactivated and apo-enzyme (118)82
Clark, M.F., see Ralph, R.K.
Clark, R.D.
—, Smith, Jr., J.G. and Davidson, E.A.
Hexosamine and acid glycosaminoglycans in human teeth (101)267
Clark Griffin, A., see Canning, L.
Clark Ristow, S., see Nelson, J.A.
Clark-Walker, G.D., see Huang, M.
Clausen, T.
The relationship between the transport of

glucose and cations across cell membranes in isolated tissues. I. Stimulation of glycogen deposition and inhibition of lactic acid production in diaphragm, induced by ouabain (109)164;
The relationship between the transport of glucose and cations across cell membranes in isolated tissues. II. Effects of K^+-free medium, ouabain and insulin upon the fate of glucose in rat diaphragm (120)361
Clauser, H., see Rossignol, B.
Clayton, R.K.
—, Sistrom, W.R. and Zaugg, W.S.
The role of a reaction center in photochemical activities of bacterial chromatophores (102)341
Cleaver, J.E.
Investigation into the effects of ultraviolet light on the rate of DNA synthesis in mammalian cells (108)42
— and Holford, R.M.
Investigations into the incorporation of [^{3}H]-thymidine into DNA in L-strain cells and the formation of a pool of phosphorylated derivatives during pulse labelling (103)654
Clem, W.H., see Klebanoff, S.J.
Clement, G., see Paris, R.
Clement, G.E.
Hydrogen ion equilibria of native and denatured pepsin (140)368
Clément, J.
—, Bézard, J. and Courel, E.
Changes in the structure of triglycerides effected at the digestive level and in the adipose tissue of rats administered a diet containing coprah oil (106)25
—, see Boucrot, Ph.
Clezy, P.S., see Morell, D.B.
Click, R.E.
Electrophoretic separation of the mononucleotides from an alkaline hydrolysate of RNA (129)424
— and Hackett, D.P.
The isolation of RNA from plant, bacterial or animal cells (129)74;
Functional stability of mRNA in potato tuber slices (142)403
Cline, J.C., see Gerzon, K.
Clouet, D.H.
—, Ratner, M. and Williams, N.
[^{14}C]Leucine incorporation into brain ribosomes (123)142
Cluskey, J.E., see Wu, Y.V.
Čmuchalová, B., see Chvapil, M.
Coates, J.H., see Jeffrey, P.D.
Cocco, A.E., see Rosensweig, N.S.
Cockburn, W.
—, Baldry, C.W. and Walker, D.A.
Oxygen evolution by isolated chloroplasts with carbon dioxide as the hydrogen acceptor. A requirement for orthophosphate or pyrophosphate (131)594;
Photosynthetic induction phenomena in spinach chloroplasts in relation to the nature of the isolating medium (143)606;
Some effects of inorganic phosphate on O_2 evolution by isolated chloroplasts (143)614
Cockerill, L.M., see Got, K.
Cocking, E.C., see Davies, J.W.; see Hall, T.C.
Cocucci, E., see Melani, F.
Coddington, A., see Cove, D.J.
Coe, E.L.
Correlations between adenine nucleotide levels and the velocities of rate-determining steps in the glycolysis and respiration of intact Ehrlich ascites carcinoma cells (118)495
—, see Lee, I.Y.
Coffey, R.G.
—, Morse, H. and Newburgh, R.W.
The synthesis of nucleic acid constituents in the early chick embryo (114)547
Cogniaux-Le Clerc
Inhibitory effect of 8-azaguanine on the synthesis of vaccinia virus DNA (108)5
Cohen, A.M.
— and Yudkin, J.
The effect of dietary sucrose upon the response to sodium tolbutamide in the rat (141)637
Cohen, A.S., see Cathcart, E.S.; see Newcombe, D.S.
Cohen, G.N., see Patte, J.C.; see Truffa-Bachi, P.
Cohen, J., see Baden, H.P.
Cohen, J.A., see Jansz, H.S.; see Pouwels, P.H.; see Schilperoort, R.A.
Cohen, L.A., see Oxman, M.A.
Cohen, M., see Panos, C.
Cohen, P.S.
— and Ennis, H.L.
Amino acid regulation of RNA synthesis during recovery of Escherichia coli from Mg^{2+} starvation (145)300
Cohen, S., see Hoober, J.K.
Cohen, S.S., see Lucas-Lenard, J.M.
Cohn, M., see Berman, K.
Cohn, W.E., see Uziel, M.
Cole, D.M., see Boursnell, J.C.
Cole, H.A.
—, Wimpenny, J.W.T. and Hughes, D.E.
The ATP pool in Escherichia coli. I. Measurements of the pool using a modified luciferase assay (143)445
Cole, J.A.
— and Wimpenny, J.W.T.
The inter-relationships of low redox potential cytochrome c_{552} and hydrogenase in facultative anaerobes (128)419
—, see Wimpenny, J.W.T.
Cole, L.J., see Swingle, K.F.
Cole, P.W., see Folk, J.E.
Coleman, A.L., see Rosenberg, I.H.
Coleman, G.
Amino acid incorporation by a polyribosome concentrate isolated from Bacillus subtilis (142)558
Coleman, R.
— and Finean, J.B.
Preparation and properties of isolated plasma membranes from guinea-pig tissues (125)197
—, Michell, R.H., Finean, J.B. and Hawthorne, J.N.
A purified plasma membrane fraction isolated from rat liver under isotonic conditions (135)573
—, see Michell, R.H.; see Thompson, J.E.
Coleman, R.L.
—, Scroggs, R.A. and Whittington, A.
Purification and properties of β-N-acetyl-

Coleman, R.L. (continued)
glucosaminidase from bovine uterus (146)290
Coleman, T.J.
—, Marshall, R.D. and Potter, M.
Preparation of a glycopeptide from an immunoglobulin κ-polypeptide chain from the mouse (147)396
Coles, N.W., see Soda, K.
Coletti-Previero, M.A., see Peviero, A.
Collin, M.V., see Mizuno, N.S.
Collins, F.D., see De Pury, G.G.
Collipp, P.J.
— and Kaplan, S.A.
Interaction of ^{14}C-labeled human and bovine growth hormone with serum protein (117)416
Colobert, L., see Creach, O.
Colombo, B.
—, Felicetti, L. and Baglioni, C.
Inhibition of protein synthesis in reticulocytes by antibiotics. I. Effects on polysomes (119)109
—, see Felicetti, L.
Common, R.H., see Cayen, M.N.
Concha B., J. see Gonzáles S., C.
Conchie, J., see Levvy, G.A.; see Lush, I.E.
Condrea, E.
—, Avi-Dor, Y. and Mager, J.
Mitochondrial swelling and phospholipid splitting induced by snake venoms (110)337
—, Rosenberg, P. and Dettbarn, W.-D.
Demonstration of phospholipid splitting as the factor responsible for increased permeability and block of axonal conduction induced by snake venom. I. Study on lobster axons (135)669
Coniglio, J.G.
— and Bartow Culp, F.
Effect of fasting on fatty acid synthesis in cell-free preparations of rat-mammary gland (106)419
Conkerton, E.J., see St. Angelo, A.J.
Conklin, R.L., see Burnett, G.H.
Connell, G.E., see Swewczuk, A.
Connett, P.H., see Madison, J.T.
Conover, T.E.
— and Bárány, M.
The absence of a myosin-like protein in liver mitochondria (127)235
Consiglio, E., see Viscidi, E.
Constantin, M.J.
— and Savary, P.
Incorporation of stearic acid in the triglycerides of rat-lymph chylomicrons (106)248
—, see Savary, P.
Constantino, L.
— and Vitagliano, V.
The influence of solvation of purinic and pyrimidinic bases on the conformational stability of DNA solutions (134)204
Constantsas, N.S.
— and Knox, W.E.
The activation of chick liver tyrosine transaminase in vitro (132)178
Conway, A.
— and Koshland, Jr., D.E.
The probing of active sites by similar reporter groups. The preparation of 4-bromoacetamido-2-nitrophenol (133)593
Conyers, R.A.J.
—, Birkett, D.J., Neale, F.C., Posen, S. and Brudenell-Woods, J.
The action of EDTA on human alkaline phosphatases (139)363
Cook, G.M.W.
— and Eylar, E.H.
Separation by the M and N blood-group antigens of the human erythrocyte (101)57
Cooper, J.M., see Doy, C.H.
Cooper, R.A.
— and Kornberg, H.L.
Net formation of phosphoenolpyruvate from pyruvate by Escherichia coli (104)618; The mechanism of the phosphoenolpyruvate synthase reaction (141)211
Coots, R.H., see Anderson, R.L.
Cope, B.T.
—, Smith, U., Crespi, H.L. and Katz, J.J.
Studies on the identity of ordinary and deuterio-phycocyanins: end-groups, amino acid compositions minimum molecular weights, peptide maps (133)446
Copenhaver, Jr., J.H., see Fenster, L.J.
Corder, C.N., see Way, J.L.
Cordes, E.H., see Behme, M.T.A.
Córdoba, F.
—, González, C. and Rivera, P.
Antibodies against pyridoxal 5'-phosphate and pyridoxamine 5'-phosphate (127)151
Cormier, M.J., see Hori, K.; see Kreiss, P.
Cornatzer, W.E., see Glende, Jr., E.A.; see Miller, J.E.
Corneo, G., see Polli, E.
Cornwell, D.G., see Deamer, D.W.
Corpe, W.A.
— and Salton, M.R.J.
Properties of surface materials released from cells of Chromobacterium violaceum (124)125
Corredor, C.
—, Mansbach, C. and Bressler, R.
Carnitine depletion in the choline-deficient state (144)366
Corrie, W.S.
— and Bonting, S.L.
Studies on (Na^+-K^+)-activated ATPase. XVII. Effect of ouabain and erythrophleine on potassium concentration and membrane potential of frog sartorius muscle (120)91
Cortés, J.M.
— and Péron, F.G.
Direct extraction of corticosterone from rat adrenal glands under an applied electrical field. I (126)43
Cortner, J.A.
— and Schnatz, J.D.
Electrophoretic behavior of alkaline lipolytic activity in human adipose tissue (139)107
Cory, J.G.
—, Suhadolnik, R.J., Resnick, B. and Rich, M.A.
Incorporation of cordycepin (3'-deoxyadenosine) into RNA and DNA of human tumor cells (103)646
Cost, H.B.
— and Gray, E.D.
Rapidly labeled-RNA synthesis during morphogenesis (138)601
Costa, M.T., see Mondovì, B.

Cota-Robles, E., see Mann, J.D.
Cotton, R.G.H.
— and Gibson, F.
The biosyhthesis of tyrosine in Aerobacter aerogenes: Partial purification of the T protein (147)222
Couchoud-Beaumont, P., see Azoulay, E.
Coughlan, M.P., see Winder, F.G.
Coultate, T.P., see Dennis, D.T.
Counts, W.B.
— and Flamm, W.G.
An artifact associated with the incorporation of thymine into DNA preparations (114)628
Courel, E., see Clément, J.
Courtade, S.
—, Marinetti, G.V. and Stotz, E.
The structure and abundance of rat tissue cardiolipins (137)121
Coutsogeorgopoulos, C.
On the mechanism of action of chloramphenicol in protein synthesis (129)214
—, Hacker, B. and Mantsavinos, R.
Enzymic conversion of thymidine 3'-monophosphate to thymidine 3'-diphosphate and 3'-triphosphate (119)439
Cove, D.J.
The induction and repression of nitrate reductase in the fungus Aspergillus nidulans (113)51
— and Coddington, A.
Purification of nitrate reductase and cytochrome c reductase from Aspergillus nidulans (110)312
Cowans, J.A.
— and Katz, S.A.
A direct potentiometric study of the urea–urease system (107)605
Cowgill, R.W.
Fluorescence and the structure of proteins. VI. Non-fluorescent phenol–amide complexes (109)536;
Fluorescence and the structure of proteins. VII. Hydrogen-bonded phenols as fluorescence sinks (112)550;
Fluorescence and the structure of proteins. VIII. Iodination of ribonuclease modified by subtilisin (120)189;
Fluorescence and protein structure. IX. Relationship between tyrosine fluorescence and various stages in denaturation of ribonuclease (120)196;
Fluorescence and protein structure. X. Reappraisal of solvent and structural effects (133)6;
Fluorescence and protein structure. XI. Fluorescence quenching by disulfide and sulfhydryl groups (140)37;
Fluorescence and the structure of proteins. XII. Pancreatic trypsin inhibitor (140)552
Cox, G.B., see Jackman, L.M.; see Young, I.G.
Cox, R.A., see Dalgarno, L.
Cox, R.M., see Fay, P.
Cox, R.P., see Agus, S.G.
Cozzone, A.
— et Marchis-Mouren, G.
Purification de la ribonucléase pancréatique de rat (128)396
—, see Reboud, J.P.
Craddock, C.G., see Nakai, G.S.
Craddock, V.M.
— and Magee, P.N.
The conservation of isotopically labelled formate and orotate after administration to neonatal animals (134)182
Cramer, F., see Scheit, K.-H.; see Seidel, H.
Cramer, W.A.
— and Butler, W.L.
Light-induced absorbance changes of two cytochrome b components in the electron-transport system of spinach chloroplasts (143)332
Crane, F.L., see Cunningham, W.P.; see Henninger, M.D.; see Stiles, J.W.
Crane, R.K.
—, Forstner, G. and Eichholz, A.
Studies on the mechanism of the intestinal absorption of sugars. X. An effect of Na^+ concentration on the apparent Michaelis constants for intestinal sugar transport, in vitro (109)467
—, see Bosačková, J.; see Lyon, I.; see Rhodes, J.B.
Crass, III, M.F.
— and Meng, H.C.
The removal and metabolism of chylomicron triglycerides by the isolated perfused rat heart: The role of a heparin-released lipase (125)106
Craven, G.R., see Givol, D.; see Korenman, S.G.
Crawhall, J.C.
— and Segal, S.
Dithiothreitol in the study of cysteine transport (121)215
—, see Schwartzman, L.
Creach, O.
—, Entressangles, B. et Colobert, L.
Lipides de la paroi ectoplasmique d'Eberthella typhi. I. Acides gras libres et lipides neutres de l'endotoxine (116)80
Creasey, W.A.
— and Markiw, M.E.
Biochemical effects on the vinca alkaloids. III. The synthesis of RNA and the incorporation of amino acids in Ehrlich ascites cells in vitro (103)635
Creeth, J.M.
— and Knight, C.G.
On the estimation of the shape of macromolecules from sedimentation and viscosity measurements (102)549
Crepy, D., see Acher, R.
Crespi, H.L., see Cope, B.T.; see Ghosh, A.K.
Criddle, R.S., see Huber, R.E.
Crocken, B.
— and Tatum, E.L.
Sorbose transport in Neurospora crassa (135)100
Crofford, O.B.
—, Jeanrenaud, B. and Renold, A.E.
Effect of insulin on the transport and metabolism of sorbitol by incubated rat epididymal adipose tissue (111)429
Crofts, A.R.
—, Deamer, D.W. and Packer, L.
Mechanisms of light-induced structural changes in chloroplasts. II. The role of ion movements in volume changes (131)97
—, see Deamer, D.W.
Cronan, Jr., J.E.
The unsaturated fatty acids of Escherichia

Cronan, Jr., J.E. (continued)
coli (144)695
Crook, E.M., see Trewavas, A.J.
Crudup, K., see Sells, B.H.
Csányi, V.
—, Jacobi, G. and Straub, B.F.
The regulation of penicillinase synthesis (145)470
Cubero, J.M., see Schmid, H.H.O.
Cummings, D.J.
— and Mondale, L.
Density-gradient banding of denatured DNA in Cs_2SO_4 (120)448
Cummins, J.E.
— and Mitchison, J.M.
Adenine uptake and pool formation in the fission yeast Schizosaccharomyces pombe (136)108
— and Rusch, H.P.
Transcription of nuclear DNA in nuclei isolated from plasmodia at different stages of the cell cycle of Physarum polycephalum (138)124
—, Weisfeld, G.E. and Rusch, H.P.
Fluctuation of ^{32}P distribution in rapidly labeled RNA during the cell cycle of Physarum polycephalum (129)240
Cummins, J.T.
—, Strand, J.A. and Vaughan, B.E.
Sodium transport in Ulva (126)330
Cunningham, D.D.
— and Steiner, D.F.
Extraction of RNA polymerase from rat liver nuclei in a soluble form (145)834
Cunningham, L.
—, Ford, J.D. and Rainey, J.M.
Heterogeneity of β-aspartyl-oligosaccharides derived from ovalbumin (101)233
Cunningham, W.P.
—, Crane, F.L. and Sottocasa, G.L.
Relation between structure and function in electron transport systems. I. Sequential release of NAD dehydrogenase activity by a series of physical treatments (110)265
—, Prezbindowski, K. and Crane, F.L.
The relation between structure and function in electron transport systems. II. Effect of solvent treatment on membrane structure (135)614
Curran, P.F., see Field, M.; see Fuisz, R.E.
Curry, J.B.
— and Hersh, R.T.
Column chromatography of the proteins from calf spleen ribosomes (129)435
Curtius, C.-H., see Semenza, G.
Cygan, Z.
— and Żak, T.
The latent activities of aspartate transcarbamylase in beef liver homogenates (134)289

D

Dabat, M.T., see Bourillon, R.
Dahlqvist, A.
— and Gryboski, J.D.
Inability of the human small-intestinal lactase to hydrolyze lactulose (110)635
— and Nordström, C.
The distribution of disaccharidase activities in the villi and the crypts of the small-intestinal mucosa (113)624
Dahm, K.
— and Breuer, H.
Partial purification of soluble UDP glucuronyltransferase from human intestine (113)404;
Reinigung und Charakterisierung einer löslichen Uridindiphosphatglucuronat:17-Hydroxysteroid-Glucuronyltransferase beim Menschen (128)306;
Vergleichende Untersuchungen über den Stoffwechsel von Oestronsulfat und Oestron in Zellfraktionen der Rattenleber (137)196
—, see Stárka, L.
Daikuhara, Y., see Takeda, J.
D'Albis, A.
— et Béchet, J-J.
Effet du pH sur la fixation d'inhibiteurs competitifs synthétiques par la trypsine (140)435
D'Alessio, G., see Forlani, L.
Dalferes, Jr., E.R., see Berenson, G.S.; see Radhakrishnamurthy, B.
Dalgarno, L.
—, Cox, R.A. and Martin, E.M.
Polyribosomes in normal Krebs 2 ascites tumor cells and in cells infected with encephalomyocarditis virus (138)316
Dalton, B.P., see Hochstein, L.I.
Dalton, T.
— and Snart, R.S.
Effect of hormones on the permeability of the toad bladder (Bufo marinus) (135)1059;
Dose-response characteristics of deoxycorticosterone-stimulated Na^+ transport by the isolated toad bladder (135)1062
Dam, H., see Jensen, B.
Damadian, R.
Abnormal phosphorus metabolism in a potassium transport mutant of Escherichia coli (135)387
D'Amelio, V.
The globins of adult and embryonic chick hemoglobin (127)59
Damjanovich, S.
— and Kleppe, K.
On the reactivity of SH groups in phosphorylase b (122)145
—, Sanner, T. and Pihl, A.
Preferential protection of the regulatory function of phosphorylase b against X-ray inactivation in solution (136)593
Dandrifosse, G.
— and Schoffeniels, E.
Mechanism of chitinase secretion by the gastric mucosa (148)741
Daniels, M.
— and Grimison, A.
Photolysis of the aqueous thymine system. I. Excitation at 1849 Å (142)292
— and Schweibert, M.C.
Cytosine hydroperoxide formation in γ-radiolysis of cytosine in aqueous solution (134)481
Danishefsky, I.
— and Heritier-Watkins, O.
Nucleoside diphosphate glucose pyrophosphorylases in mast cell tumors (139)349
— and Steiner, H.
Investigations on the chemistry of heparin. V. Disaccharides obtained after partial hydrolysis (101)37
—, see Blandamer, A.; see Payza, A.N.
Dankert, M., see Recondo, E.
Danon, D.
—, Howe, C. and Lee, L.T.
Interaction of polylysine with soluble components of human erythrocyte membranes (101)201
—, Marikovsky, Y., Furedi, A. and Ohad, I.
On the separation of old from young erythrocytes in hypotonic bovine serum albumin solutions (104)281
—, see Marikovsky, Y.
Danowski, T.S., see Nakano, M.
Danyluk, S.S., see Blears, D.J.
Darbre, A.
— and Blau, K.
Breakdown of trifluoroacetylated esters of cysteine and hydroxyl amino acids during gas chromatography: Effects caused by some polar stationary phases (126)591
Darlix, J.L.
—, Fromageot, H.P.M. and Fromageot, P.
An improved method for the preparation of 5'-monophosphoderivatives of the common ribonucleosides (145)517
Darvey, I.G.
—, Prokhovnik, S.J. and Williams, J.F.
Method for the derivation of rate equations in enzyme kinetics using the maximum rate of product formation (110)1
Das, B., see Friedman, O.M.
Das, H.K., see Chatterjee, S.K.
Das, M.
— and Govindjee
A long-wave absorbing form of chlorophyll a responsible for the "red drop" in fluorescence at 298 °K and the F723 band at 77 °K (143)570
Das, P.K.
—, Hill, H.A.O., Pratt, J.M. and Williams, R.J.P.
The so-called hydridocobalamin (141)644
DasGupta, B.R.
— and Boroff, D.A.
Chromatographic isolation of hemagglutinin-free neurotoxin from crystalline toxin of Clostridium botulinum type A (147)603

DasGupta, B.R. (continued)
—, see Boroff, D.A.
Dasgupta, N.N., see Basu, S.
Dashkevich, V.S., see Salganik, R.I.
Datta, A.
— and Sen, S.P.
Mechanism of action of plant growth substances. Growth substance stimulation of amino acid incorporation into nuclear protein (107)352
—, Sen, S.P. and Datta, A.G.
Effect of indole-3-acetic acid on synthesis in vitro of isocitrate lyase in potato tuber (108)147
—, see Roychoudhurry, R.
Datta, A.G., see Chowdhury, J.R.; see Datta, A.; see Hati, R.N.
Datta, S.P., see Eisenthal, R.
Daunas, J.A., see Penhos, J.C.
Daune, M., see Chambron, J.; see Semmel, M.
David, S.
—, Estramareix, B. et Hirshfeld, H.
Le formiate, precurseur du carbone 4 de la pyrimidine de la thiamine (127)264;
Biosynthesis of thiamine. Formate, the precursor of carbon 4 of the pyrimidine ring (148)11
—, Estramareix, B. et Rouzeau, C.
Sur la synthèse du désoxyribose dans les cultures de cellules BHK (142)270
Davidov, E.
—, Rosen, E., Shalitin, N. and Lichtenstein, N.
Effect of α-N-alkyl derivatives of L-glutamine on the growth of hemolytic streptococci (117)73
Davidson, C.K., see Adie, P.A.
Davidson, C.L., see Papirmeister, B.
Davidson, E.A.
Conformation of the iduronic acid moiety of chondroitin sulfate B (Dermatan sulfate) (101)121
—, see Clark, R.D.; see Katsura, N.; see Olavesen, A.H.
Davidson, J.B., see Bertsch, W.
Davies, J.W.
— and Cocking, E.C.
Liquid scintillation counting of ^{14}C and ^{3}H samples using glass-fibre or filter-paper discs (115)511
Davies, R.E., see Forte, J.G.
Davies, R.H.
Carbamyl phosphate synthesis in Neurospora crassa. II. Genetics, metabolic position, and regulation of arginine-specific carbamyl phosphokinase (107)54
Davis, B.C., see Strickland, E.H.
Davis, E.J.
The effect of pyruvate on cyclic oxidations by heart sarcosomes (143)26
Davis, F.F., see Anderson, J.R.; see Somberg, E.W.
Davis, K.A.
— and Williams, G.R.
Cation activation of glyoxalase I (113)393
Davis, R.H.
Carbamyl phosphate synthesis in Neurospora crassa. I. Preliminary characterization of arginine-specific carbamyl phosphokinase (107)44
Davis, R.P., see Atsmon, A.
Davis, R.V., see Campbell, B.J.
Davis, W.J., see Nakao, A.
Davydova, S., see Kruh, J.
Dawes, E.D., see Kohn, P.
Dawson, C.R., see Clark, E.E.
Dawson, D.M.
Efflux of enzymes from chicken muscle (113)144
Dawson, G., see Clamp, J.R.
Dawson, K.G.
— and Beck, J.C.
Puromycin on insulin and growth-hormone actions in rat epididymal fat pad (107)163
Dawson, P.S.S.
Intracellular amino acid pool of Candida utilis during growth in batch and continuous flow cultures (111)51
Dawson, R.M.C.
— and Hauser, H.
On the mechanism of the stimulation by anionic amphipaths of lecithin hydrolysis by phospholipase B of Penicillium notatum (137)518
Day, A.J.
— and Fidge, N.H.
Conversion of [1-^{14}C]glucose to lipid by macrophages in vitro (106)19
— and Gould-Hurst, P.R.S.
Cholesterol esterase activity of normal and atherosclerotic rabbit aorta (116)169
Day, M.F., see Mercer, E.H.
Deamer, D.W.
— and Cornwell, D.G.
Calcium action on fatty acid and phospholipid monolayers and its relation to the cell membrane (116)555
—, Crofts, A.R. and Packer, L.
Mechanism of light-induced structural changes in chloroplast. I. Light-scattering increments and ultrastructural changes mediated by proton transport (131)81
—, see Crofts, A.R.
Dean, A.C.R.
— and Rogers, P.L.
The cell size and macromolecular composition of Aerobacter aerogenes in various systems of continuous culture (148)267;
The action of drugs on Aerobacter aerogenes in various systems of continuous culture (148)280;
Filament formation during the continuous culture of Aerobacter aerogenes in the presence of m-cresol (148)774
Dean, C.J., see Baker, A.
Dean, P.D.G.
— and Whitehouse, M.W.
Inhibition of hepatic sterol oxidation by cholanic (bile) acids and their conjugates (137)328
De Barreiro, O.L.C.
5-Aminolaevulinate hydro-lyase from yeast. Isolation and purification (139)479
De Bernard, B., see Romeo, D.
De Boiso, J.F.
— and Stoppani, A.O.M.
Metabolism of serine and glycine in baker's yeast (148)48
DeBusk, A.G., see DeBusk, B.G.
DeBusk, B.G.
— and DeBusk, A.G.

Molecular transport in Neurospora crassa. I. Biochemical properties of a phenylalanine permease (104)139
Decallonne, J.R., see Briquet, M.V.
Dechary, J.M., see St. Angelo, A.J.
Decker, K.
— and Bleeg, H.
Induction and purification of stereospecific nicotine oxidizing enzymes from Arthrobacter oxidans (105)313
—, Jungermann, K., Thauer, R.K. and Hunt, S.V.
Net CO_2 fixation into the S-methyl group of methionine and into the positions 2 and 8 of the purines in Clostridium kluyveri (141)202
Deckx, R.F.
—, Vantrappen, G.R. and Parein, M.M.
Localization of lysozyme activity in a Paneth cell granule fraction (139)204
DeCourcy, Jr., S.J., see Hisatsune, K.
Decroly, M.
— and Cape, M.
Ribosomes during embryonic development of Xenopus laevis (103)601
Dedonder, R., see Rapoport, G.
DeFilippes, F.M.
Sucrose gradient sedimentation of dissociated HeLa cell ribosomes (145)337
Defosse, G., see Vandebroek, G.
De Graeff, J.
—, Dempsey, E.F., Lameyer, L.D.F. and Leaf, A.
Phospholipids and active sodium transport in toad bladder (106)155
De Groot, L.J.
Stimulation and inhibition of thyroid iodinating enzyme systems (136)364
De Groot, N., see Lapidot, Y.
De Haan, E.J.
—, Tager, J.M. and Slater, E.C.
Factors affecting the pathway of glutamate oxidation in rat-liver mitochondria (131)1
—, see Papa, S.
De Haan, P.G., see Nijkamp, H.J.J.
De Haas, G.H.
—, Bonsen, P.P.M. and Van Deenen, L.L.M.
Studies on cardiolipid. III. Structural identity of ox-heart cardiolipin and synthetic diphosphatidyl glycerol (116)114
— and Van Deenen, L.L.M.
Structural identification of isomeric lysolecithins (106)315
—, see Attwood, D.; see Bonsen, P.P.M.
Deiss, Jr., W.P., see Balasubramaniam, K.
—, see Peake, R.L.
De Jersey, J., see Blakeley, R.L.
De Jongh, D.C., see Hanessian, S.
Dekker, E.E., see Swain, R.R.
De Klerk, H., see Dus, K.; see Kamen, M.D.; see Yamanaka, T.
De Kok, A.
— and Veeger, C.
The effect of light on flavoproteins in the presence of α-keto acids (131)589
DeKoning, A.J.
The reaction of 2-aminoethylphosphonic acid with ninhydrin (130)521
— and McMullan, K.B.
Hydrolysis of phospholipids with HCl (106)519
Delaage, M.
— et Lazdunski, M.
Sur la réactivité des fonctions ionisables des trypsinogènes de boeuf et de porc (105)523; Différentes espèces moléculaires du trypsinogène et la trypsine de boeuf (105)608
—, see Lazdunski, M.
De la Llosa, P.
—, Tertrin, C. et Jutisz, M.
Variation de l'encombrement moléculaire de la ribonucléase dans différentes conditions de dénaturation (115)464
—, see Tertrin, C.
De Lamirande, G., see Morais, R.
De Lange, N., see Walop, J.N.
Delaumeny, J.M., see Gastambide-Odier, M.
Del Campillo-Campbell, A., see Grunberg-Manago, M.
Del Campo, F.F., see Losada, M.; see Paneque, A.; see Ramírez, J.M.
Del Castillo, L.M.
—, Bustamante, Y. and Castañeda-Agulló, M.
Dielectric constant and enzyme kinetics. Solvent effects on the esterolytic activity of trypsin (128)578
—, see Castañeda-Agulló, M.
Delcher, H.K.
—, Fried, M. and Shipp, J.C.
Metabolism of lipoprotein lipid in isolated perfused rat heart (106)10
— and Shipp, J.C.
Effect of pH, pCO_2 and bicarbonate on metabolism of glucose by perfused rat heart (121)250
Delihas, N.
— and Staehelin, M.
The preparation of rat-liver sRNA (119)385
Dell'Acqua, S.
—, Mancuso, S., Eriksson, G. and Diczfalusy, E.
Metabolism of retrotestosterone and testosterone by midterm human placentas perfused in situ (130)240
De Loecker, W.C.
—, Brooks, S.C. and De Wever, F.
The stimulation in vitro of protein synthesis in muscle microsomal supernatant by estradiol-3,17β-disulfate (119)655
De Lorenzo, F.
— and Molea, G.
Relative levels of the disulfide-interchange enzyme in the microsomes of the bovine tissues (146)593
Delosme, R.
Étude de l'induction de fluorescence des algues vertes et des chloroplastes au début d'une illumination intense (143)108
Deltour, G., see Broekhuysen, J.
DeLuca, H.F., see Zile, M.H.
DeLuca, S., see Silbert, J.E.
Demel, R.A.
—, Van Deenen, L.L.M. and Pethica, B.A.
Monolayer interactions of phospholipids and cholesterol (135)11
—, see Kinsky, S.C.
Demeyer, D.I.
— and Henderickx, H.K.
The effect of C_{18}-unsaturated acids on methane production in vitro by mixed rumen bacteria (137)484
De Mots, A., see Wintermans, J.F.G.M.
Dempsey, E.F., see De Graeff, J.

Demushkin, V.P., see Kochetkov, N.K.
De Nayer, Ph.
—, Van den Schrieck, H.G., Koch, M. and De Visscher, M.
A simplified method for the preparation of thyroxine-binding prealbumin (124)411
Deneault, J., see Benoiton, L.
Dénes, G., see Faragó, A.; see Staub, M.
Dennis, D.T.
— and Coultate, T.P.
The regulatory properties of a plant phosphofructokinase during leaf development (146)129
Dennis, J., see Samachson, J.
Depieds, R., see Cartouzou, G.
Depinto, J.A.
Ornithine-containing lipid in Rhodospirillum rubrum (144)113
De Pury, G.G.
— and Collins, F.D.
Raised level of free fatty acids in serum of rats deficient in essential fatty acids as a contributing cause of their fatty acid livers (106)213
De Recondo, A.M.
Le système des DNA-polymérases de foie de rat et la transformation biologique du DNA natif en DNA "primer" (114)338;
Transformation biologique du DNA natif en DNA "primer" dans le tissu hépatique en voie de croissance: Localisation intracellulaire et modalités d'action du facteur enzymatique responsable de cette activation (145)708
—, Frayssinet, C., Lafarge, C. et Le Breton, E.
Action de l'aflatoxine sur le métabolisme de DNA au cours de l'hypertrophie compensatrice du foie après hepatectomie partielle (119)322
De Renzo, E.C., see Barg, Jr., W.F.
De Robertis, E., see Lapetina, E.G.
De Robichon-Szulmajster, H., see Surdin, Y.
Derr, R.F., see Dickie, N.
Der Terrossian, E.
—, Kassab, R., Pradel, L.A. et Thoai, N.V.
Composition en acides amines de l'adénosine 5'-triphosphate:L-arginine phosphotransférase cristallisée (122)462
—, see Kassab, R.; see Thoai, N.V.
DerVartanian, D.V.
— and Veeger, C.
Studies on succinate dehydrogenase. II. On the nature of the reaction of competitve inhibitors and substrates with succinate dehydrogenase (105)424
—, see Van Voorst, J.D.W.
Dervichian, D.G., see Bourgès, M.C.; see Small, D.M.
Desai, I.D.
— and Polglase, W.J.
Characterization and properties of acetohydroxy acid synthetase of streptomycin-dependent Escherichia coli (110)181;
Threonine dehydratase of streptomycin-dependent Escherichia coli K-12 (114)642
—, see Mellors, A.
DeSalle, L., see Rampersad, O.R.
Deshmukh, D.S.
—, Malathi, P. and Ganguly, J.
Rapid conversion of retinal acid (vitamin A aldehyde) to retinoic acid (vitamin A acid) in the living rat (107) 120
Desnuelle, P., see Benzonana, G.; see Charles, M.; see Entressangles, B.; see Guy, O.; see Maroux, S.; see Palla, J.C.; see Reboud, J.P.; see Sémériva, M.
De Souza, B.C., see Frydman, R.B.
Desseaux, B., see Heyman, T.
De Tomás, M.E., see Brenner, R.R.
De Torrontegui, G.
— and Berthet, J.
Action of adrenalin and glucagon on the metabolism of phospholipids in rat liver (116)467;
Action of insulin on the incorporation of [^{32}P]-phosphate in the phospholipids of rat adipose tissue (116)477
Dettbarn, W.-D., see Condrea, E.
D'Eustachio, A.J., see Knight, Jr., E.
Deuticke, B., see Omachi, A.
Deutsch, E.W., see Hansch, C.
DeVenuto, F.
— and Chader, G.
Interactions between cortisol or corticosterone and fractions of rat thymus, brain and heart cell (121)151
— and Lange, R.J.G.
Effect of adrenalectomy on amino acid incorporation into protein by cell-free preparation from liver and kidney of rats at various time after the operation (134)443
—, see Westphal, U.
De Vijlder, J.J.M.
— and Slater, E.C.
The reaction of glyceraldehydephosphate dehydrogenase with NAD$^+$ (132)207
De Visscher, M., see De Nayer, Ph.
De Vries, A., see Brewer, E.N.; see Grotto, L.; see Moroz, C.
De Vries, G.M.
Inhibition of leucyl-RNA synthetase by periodate-oxidized tRNA modified by hydroxylamine (145)169
De Vries, W.
—, Gerbrandy, S.J. and Stouthamer, A.H.
Carbohydrate metabolism in Bifidobacterium bifidum (136)415
De Walz, A.T., see Noir, B.A.
De Wever, F., see De Loecker, W.C.
Deyl, Z., see Rosmus, J.
Deželić, Gj., see Deželić, N.
Deželić, N.
—, Pende, B. and Deželić, Gj.
Physicochemical characterization of the lipopolysaccharide from S. typhi (112)589
Diamantis, A.A., see Harris, P.L.
Dianoux, A.-C.
— et Jollès, P.
Étude d'un lysozyme pauvre et cystine et en tryptophane: Le lysozyme de blanc d'oeuf d'oie (133)472
—, see Jollès, J.
Dibble, W.E., see Bohn, T.S.
Dickie, N.
—, Norton, L.F., Derr, R.F., Alexander, C.S. and Nagasawa, H.T.
Effect of puromycin aminonucleoside on the incorporation of labeled precursors into rat kidney RNA (129)288
Dicks, J.W.

— and Tempest, D.W.
Potassium–ammonium antagonism in polysaccharide synthesis by Aerobacter aerogenes NCTC 418 (136)176
Diczfalusy, E., see Bird, C.E.; see Dell'Acqua, S.; see Mancuso, S.; see Pasqualini, J.R.; see Pion, R.J.
Diehl, J.F.
Specific effect of vitamin E deficiency on amino acid transport in isolated rabbit diaphragm (115)239
Diemer, J.
—, McLennan, B. and Lane, B.G.
Studies of the primary structure of 18-S + 28-S ribonucleates (114)191
Dietriech, L.S., see Boucek, R.J.
Dietz, A., see Rabinowitz, Y.
Di Girolamo, A.
—, Di Girolamo, M., Gaetani, S. and Spadoni, M.A.
Comparison between RNA's capable of stimulating amino acid incorporation and early-labelled RNA in rat-liver nuclei (114)195
Di Girolamo, M., see Di Girolamo, A.
Di Jeso, F., see Thoai, N.V.
Dill, C.W., see Khan, I.M.
Dill, I.K., see Kuo, J.F.
Dillard, C., see Ragab, H.
Dilley, R.A.
— and Rothstein, A.
Chloroplast membrane characteristics (135)427
Dils, R., see Smith, S.
Dilworth, M.J.
Acetylene reduction by nitrogen-fixing preparations from Clostridium pasteurianum (127)285
—, see Munson, T.O.
Dimant, E., see Hochberg, A.; see Niv, J.
Di Marco, A., see Calendi, E.
Dimick, P.S.
—, McCartey, R.D. and Patton, S.
Paths of palmitic acid incorporation into milk fatty triglycerides (116)159
Dimigen, J., see Klink, F.
Dimitrov, G., see Shipolini, R.
Diniz, C.R., see Carvalho, I.F.
Dinovo, E.C., see Shields, J.E.
Di Prisco, G.
— and Strecker, H.J.
Studies on the effect of ionic compounds on the stability of glutamate dehydrogenase (122)413
Dirheimer, G.
—, Sabeur, G. et Ebel, J-P.
Isolement d'un aspartate tRNA de levure de bière hautement purifié (149)587
—, see Remy, P.
Dittmer, J.C.
Identification of cerebroside sulfate as a component of the inositol phosphatide fraction of ox brain (106)425
Divekar, A.Y.
—, Vaidya, N.R. and Braganca, B.M.
Active transport of aminopterin in Yoshida sarcoma cells (135)927
—, see Braganca, B.M.
Dixon, M.
— and Kenworthy, P.
D-Aspartate oxidase of kidney (146)54
Dlugajczyk, A.
— and Eiler, J.J.
A comparison of the properties of synthetic 1,5- and 1,3-diribosyluracils with the natural presumed 1,5-diribosyluracil (119)11
Dmochowski, A., see Schmidt, M.
Dobbs, Jr., N.B.
—, Simmons, J.W., Wilson, J.B. and Huisman, T.H.J.
Hemoglobin Jenkins or hemoglobin-N-Baltimore or $\alpha_2\beta_2^{95}$Glu (117)492
Doberenz, A.R., see Wyckoff, R.W.G.
Dobryszycka, W.
— and Lisowska, E.
Effects of degradation on the chemical and biological properties of haptoglobin. I. Products of tryptic digestion (121)42
—, see Lisowska, E.
Dobson, C., see Niedermeier, W.
Dohrn, A., see Bon, W.F.
Doi, A.
Enlargement of amylopectin by ADP-D-glucose:α-1,4-glucan α-4-glucosyltransferase of spinach (146)603
—, Doi, K. and Nikuni, Z.
ADP-D-glucose-α-1,4-glucan α-4-glucosyltransferase in spinach chloroplasts. Partial purification and some properties of the enzyme (113)312
Doi, K., see Doi, A.
Doi, O., see Chaudhuri, S.
Dolan, G., see Godin, C.
Dolapchiev, L.B., see Hadjiolov, A.A.
Doležalová, V.
—, Brada, Z. and Kočent, A.
The behaviour of some proteins of normal rat serum studied by gel filtration and electrophoresis (107)294
Döllefeld, E.
— und Breuer, H.
Nachweis von Oestradiol:NAD^+-17α- und 17β-oxidoreduktasen in der Cytoplasma-Fraktion der Pferdeplacenta (124)187
—, see Stárka, L.
Doly, J.
—, Ramuz, M., Mandel, P. et Chambon, P.
Activités des RNA-polymérases nucléaires soluble et "agrégée" après hépatectomie partielle (108)521
—, see Chambon, P.
Doman, E.
— and Koide, S.S.
Analysis of 3α- and 3β-hydroxysteroid oxidoreductases of rat liver by disc electrophoresis (128)209
Donato, L., see Rosa, U.
Donatuti, G., see Mutolo, V.
Dondon, L., see Grunberg-Manago, M.
Doney, R.C.
— and Thompson, J.F.
The reduction of S-methyl-L-cysteine sulfoxide and L-methionine sulfoxide in turnip and bean leaves (124)39
Donon, O., see Infante, R.
Dopheide, T.A.A.
— and Trikojus, V.M.
Hydrolysis of the A and B chains of oxidized insulin by thyroid acid proteinase (118)435
Dorfman, A., see Schiller, S.; see Varadi, D.P.

Dorfman, R.I., see Drosdowsky, M.; see Menon, K.J.M.
Dorizzi, M., see Lemaire, G.
Dorn, G.L.
Purification of two alkaline phosphatases from Aspergillus nidulans (132)190
Doskočil, J.
— and Hochmannová, J.
Isolation and base composition of anticodon strand of DNA and its relation to rapidly labeled RNA (108)504
—, Pačes, V. and Šorm, F.
Inhibition of protein synthesis by 5-azacytidine in Escherichia coli (145)771
— and Šorm, F.
The action of 5-azacytidine on bacteria infected with bacteriophage T4 (145)780
Doty, P., see Glišin, V.R.
Douville, A.W., see Cheatum, S.G.
Douzou, P., see Hélène, C.
Dowben, R.M.
—, Brunner, J.R. and Philpott, D.E.
Studies on milk fat globule membranes (135)1
Downing, M.
—, Adams, A. and Hellenga, L.
Enzymatic conversion of ribonucleotides to deoxyribonucleotides (108)233
Downing, S., see Finerman, G.A.M.
Downs, J.J., see Fischer, D.J.
Doy, C.H.
Anthranilate synthetase and the allosteric protein model (118)173
— and Brown, K.D.
Control of aromatic biosynthesis: The multiplicity of 7-phospho-2-oxo-deoxy-D-arabino-heptonate-D-erythrose-4-phosphate-lyase (pyruvate-phosphorylating) in Escherichia coli W (104)377
— and Cooper, J.M.
Aromatic biosynthesis in yeast. I. The synthesis of tryptophan and the regulation of this pathway (127)302
—, see Brown, K.D.
Doyle, G.E., see Martin, A.P.
Drach, J.C.
— and Lingrel, J.B.
The isolation of an RNA fraction from rabbit reticulocytes which enhances amino acid incorporation into protein (123)345
— and Lingrel, J.B.
Function of reticulocyte RNA in the Escherichia coli cell-free system (129)178
Drake, M.P., see Rosmus, J.
Drakulić, M., see Brdar, B.
Drevitch, V.F.
—, Salganik, R.I., Knorre, D.G. and Mal'ygin, E.G.
The reaction of DNA with water-soluble carbodiimide and enzyme sensitivity of modified DNA (123)207
Dreyfus, J.C.
— et Schapira, G.
Action du NaF sur la synthèse acellulaire d'hémoglobine (129)601
—, see Kruh, J.
Dreyfus, P.M.
— and Hauser, G.
Thiamine deficiency on pyruvic decarboxylase system of central nervous system (104)78
Dreyfuss, J.
— and Pardee, A.B.
Evidence for a sulfate-binding site external to the cell membrane of Salmonella typhimurium (104)308
Drosdowsky, M.
—, Menon, K.M.J., Forchielli, E. and Dorfman, R.I.
Requirements of cholesterol side-chain-cleaving enzyme system of rat-testis mitochondria (104)229
Drushinina, T.N., see Budowsky, E.I.
Drysdale, J.W.
— and Munro, H.N.
Failure of actinomycin D to prevent induction of liver apoferritin after iron administration (103)185;
Polysome profiles obtained from mammalian tissues by an improved procedure (138)616
Drzeniek, R.
—, Seto, J.T. and Rott, R.
Characterization of neuraminidases from myxoviruses (128)547
—, see Seto, J.T.
Duane, Sr., W.C.
—, Hohl, M.C. and Krogmann, D.W.
Photophosphorylation activity in cell-free preparations of a blue-green alga (109)108
Dubash, P.J.
— and Rege, D.V.
Permanent bleaching of Euglena by Mg^{2+} starvation (136)185;
Excretion of protoporphyrin IX by Euglena (141)209
Dubin, D.T.
— and Brown, R.E.
A novel rRNA in hamster cell mitochondria (145)538
— and Elkort, A.T.
A direct demonstration of the metabolic turnover of chloramphenicol RNA (103)355
— and Günalp, A.
Minor nucleotide composition of ribosomal precursor, and rRNA in Escherichia coli (134)106
—, see Farnham, A.E.
Du Buy, H.G.
—, Mattern, C.F.T. and Riley, F.L.
Comparison of the DNA's obtained from brain nuclei and mitochondria of mice and from the nuclei and kinetoplasts of Leishmania enriettii (123)298
Dudacek, W.E.
— and Narayan, K.A.
Subfractionation of rat-serum low density lipoproteins (125)604
—, see Narayan, K.A.
Dudman, W.F.
Interaction between gelatin solutions and tobacco mosaic virus (120)212;
Behaviour of tobacco mosaic virus in agar and gelatin gels (126)405
Duée, E.D.
— et Vignais, P.V.
Exchange entre adénine-nucleotides extra- et intramitochondriaux (107)184
—, see Vignais, P.V.
Duffy, J.J.
—, Katoh, S. and San Pietro, A.

A heme proteolipid from spinach chloroplasts (121)201
Duggan, D.E.
— and Noll, R.M.
A biochemical basis for the inactivity of ethacrynic acid in the rat (121)162
Duke, J.A.
—, McKay, R. and Botts, J.
Conformational change accompanying modification of myosin ATPase (126)600
Duke, J.W., see Kohn, P.
Dukes, P.P.
— and Goldwasser, E.
On the mechanism of erythropoietin-induced differentiation. III. The nature of erythropoietin action on [^{14}C]glucosamine incorporation by marrow cells in culture (108)447
—, Sekeris, C.E. and Schmid, W.
On the mechanism of hormone action. VI. Increase in template activity of RNA from isolated nuclei incubated in the presence of hormone (123)126
Dulaney, D.D., see Dulaney, E.L.
Dulaney, E.L.
—, Rickes, E.L. and Dulaney, D.D.
Growth requirements of Vibrio percolans in media of high osmolarity (136)580
Dumont, J.E.
— and Tondeur-Montenez, T.
Action de l'hormone thyréotrope sur le métabolisme énergétique du tissu thyroïdien. III. Evaluation au moyen du [^{14}C]glucose de voies du métabolisme du glucose, dans le tissu thyroïdien de chien (111)258
—, see Lecocq, R.E.
Dunagin, Jr., P.E.
—, Zachman, R.D. and Olson, J.A.
The identification of metabolites of retinal and retinoic acid in rat bile (124)71
Duncan, H.M., see Palmer, G.
Dunkerley, A., see Heimberg, M.
Dunn, D.B., see Vanyushin, B.F.
Dunn, W.L., see Vassar, P.S.
Dunphy, P.J.
—, Kerr, J.D., Pennock, J.F., Whittle, K.J. and Feeney, J.
The plurality of long-chain isoprenoid alcohols (polyprenols) from natural sources (136)136
Dunstone, J.R.
— and Morgan, W.T.J.
Further observations on the glycoproteins in human ovarian cyst fluids (101)300
—, see Franek, M.D.
Dupont, M.
Étude d'une étape réversible dans la thermodénaturation de la β-lactoglobuline bovine A (102)500
Durand, D.P., see Campbell, B.J.
Durbin, R.P., see Kasbekar, D.K.
Durell, J., see Friedel, R.O.
Durham, N.N.
— and Adams, L.S.
The structural specificity involved in the inhibition of a microbial D-glucose-6-phosphate dehydrogenase by synthetic estrogens (121)90
— and Martin, J.R.
Influence of analogs on the microbial accumulation and oxidation of D- and L-tryptophan (115)260
Dürwald, H., see Sarkar, N.K.
Dus, K.
—, De Klerk, H., Sletten, K. and Bartsch, R.G.
Chemical characterization of high potentional iron proteins from Chromatium and Rhodopseudomonas gelatinosa (140)291
Dusart, J., see Verly, W.G.
Dutheillet-Lamonthezie, N., see Paoletti, C.
Dütting, D., see Melchers, F.
Dymshits, G.M., see Salganik, R.I.

E

Eaker, D.L., see Hofsten, B.V.; see Karlsson, E.

Easley, C.W.
Combinations of specific color reactions useful in the peptide mapping technique (107)386

Easter, D.J., see Smith, S.

Eastwood, M.A.
— and Boyd, G.S.
The distribution of bile salts along the small intestine of rats (137)393

Eaton, N.R.
Intracellular distribution and characterization of yeast RNA (129)511
—, see Khan, N.A.

Eavenson, E., see Wheeler, K.P.

Ebadi, M.
— and McCoy, E.
Progesterone-mediated increases of leucocyte alkaline phosphatase in rabbits (130)502

Ebata, M.
— and Takahashi, Y.
Proteolytic specification of chymopapain: Hydrolysis of Fraction B of oxidized insulin (118)201

Ebel, J-P.
—, Aubel-Sadron, G., Weil, J.H., Beck, G. et Hirth, L.
Action des sels d'ammonium quaternaire sur les acides nucléiques. IV. Influence sur l'activité biologique de divers types d'acides nucléiques (108)30
—, see Dirheimer, G.; see Remy, P.

Eberhardt, H., see Lingens, F.

Ebert, P.S.
— and Prockop, D.J.
Influence of cortisol on the synthesis of sulphated mucopolysaccharides and collagen in chick embryos (136)45

Ebner, K.E., see Steelman, V.S.

Eccleston, J.F.
The determination of aminotripeptidase activity by a rapid spectrophotometric method (139)186

Ecker, R.E.
— and Smith, L.D.
The kinetics of protein synthesis in early amphibian development (129)186

Eckermann, G., see Atkinson, M.R.

Eckhardt, E.M., see Municio, A.M.

Eckstein, F.
— and Gindl, H.
Synthesis of nucleoside 5'-polyphosphorothioates (149)35
— and Sternbach, H.
Nucleoside 5'-O-phosphorothioates as inhibitors for phosphatases (146)618

Edelman, I.S., see Fanestil, D.D.; see Fimognari, G.M.; see Gulyassay, P.F.

Edelman, P.M., see Rosenthal, S.L.

Edman, P., see Blombäck, B.

Edwards, B.E.
— and Narasimha Rao, P.
Synthesis of [1β-^{3}H]testosterone (115)518

Edwards, J.B.
— and Keech, D.B.
The essential thiol group of propionyl-CoA carboxylase (146)576

Edwards, L.J., see Hnilica, L.S.

Edwards, M., see Morita, S.

Egami, F., see Kawai, S.; see Takai, N.

Egan, A.F.
— and Gibson, F.
Anthranilate synthetase and PR-transferase from Aerobacter aerogenes as a protein aggregate (130)276

Egan, J.B.
—, Morse, M.L.
Carbohydrate transport in Staphylococcus aureus. II. Characterization of the defect of a pleiotropic transport mutant (109)172; Carbohydrate transport in Staphylococcus aureus. III. Studies of the transport process (112)63

Eger, M., see Škreb, Y.

Egorov, C.A., see Stepanov, V.M.

Egusa, M., see Inano, H.

Egyházi, E.
Microchemical fractionation of neuronal and glial RNA (114)516

Ehrenberg, A.
— and Kamen, M.D.
Magnetic and optical properties of some bacterial haem proteins (102)333
—, see Blauer, G.

Ehrenpreis, S., see Endres, G.F.

Ehrlichová, E., see Chvapil, M.

Eiber, H.B.
—, Payza, A.N. and Foldberg, B.
Studies on plasma clearing factor. II. Substrates (116)256
—, see Payza, A.N.

Eibl, H., see Van den Bosch, H.

Eichberg, J.
— and Hauser, G.
Concentrations and disappearance post mortem of polyphosphoinositides in developing rat brain (144)415
— and Karnovsky, M.L.
"Free" sialic acid in ovine submaxillary gland (124)118

Eichel, H.J.
Oxidation of L-α-hydroxy acids by Tetrahymena pyriformis (128)183

Eichholz, A.
Structural and functional organization of the brush border of intestinal epithelial cells. III. Enzymic activities and chemical composition of various fractions of Tris-disrupted brush borders (135)475
—, see Crane, R.K.; see Rhodes, J.B.

Eichhorn, M.M.
— and Nolte, A.
Catabolite repression with L-arabinose negative mutants of Escherichia coli (110)198

Eidinoff, M.L., see Kim, J.H.
Eigner, E.A., see Loftfield, R.B..
Eik-Nes, K.B., see Aakvaag, A.; see Billiar, R.B.
Eiler, J.J., see Dlugajczyk, A.
Eilon, G., see Bachrach, U.
Einolf, Jr., C.W.
— and Carstensen, E.L.
Bacterial activity in the determination of surface charge by microelectrophoresis (148)506
Eisenberg, E., see Moos, C.
Eisenberg, S.
—, Stein, Y. and Stein, O.
The role of placenta in lysolecithin metabolism in rats and mice (137)115; The role of lysolecithin on phospholipid metabolism of human umbilical and dog carotid arteries (137)221
—, see Rachmilewitz, D.
Eisenfeld, A.J.
Computer analysis of the distribution of [^{3}H]estradiol (136)498
Eisenkraft, B., see Schramm, M.
Eisenstadt, J., see Brawerman, G.; see Klein, A.
Eisenthal, R.
—, Tate, S.S. and Datta, S.P.
Inactivation of citrate lyase by oxaloacetate and its structural analogues (128)155
Eiserling, F.A., see Solomon, L.
Ekdahl, P.H., see Scherstén, T.
Ekert, B.
— et Tisne, M.R.
Effets des rayons γ sur les acides polyribo-adényliques, polyribouridilyques et leurs associations bi- et trifilaires (114)481
—, see Apelgot, S.
Ekfors, T.O., see Riekkinen, P.J.
El-Aasser, A.A.
—, Fitzsimons, J.T.R., Hinton, R.H., Reid, E., Klucics, E. and Alexander, P.
Zonal centrifugation of crude nuclear fractions from rat liver (127)553
Elad, D., see Ben-Hur, E.
Elatter, T.M.A.
Early metabolism in vivo of [4-^{14}C]androst-4-ene-3,17-dione in rat liver (111)299
—, Gustafson, G.M. and Wong, D.G.
Comparative metabolism in vivo of [4-^{14}C]-cortisol in synovial fluid in normal, rheumatoid and osteoarthritic knee (137)375
Elbers, P.F.
Ion permeability of the egg of Limnaea stagnalis L. on fixation for electron microscopy (112)318
Eldjarn, L.
—, Try, K. and Stokke, O.
Existence of an alternative pathway for the degradation of branch-chained fatty acids, and its failure in heredopathia atactica polyneuritiformis (Refsum's disease) (116)395
—, see Jellum, E.; see Stokke, O.
Eldon Sutton, H.
— and Karp, Jr., G.W.
Adsorption of rivanol by potato starch in isolation of transferrins (107)153
Eley, D.D.
— and Snart, R.S.
Conduction in chloroplast components (102)379
Eliseeva, G.I., see Budowsky, E.I.
Elkin, J., see Ritter, C.
Elkort, A.T., see Dubin, D.T.
Ellem, K.A.O.
A dual-tabel technique for comparing the rates of synthesis of nucleic acid fractions separated by methylated albumin–kieselguhr chromatography from cells in different states of activity (149)74
Ellert, M.S., see Nunn, Jr., A.S.
Ellery, B.W., see Symons, R.H.
Elliott, W.B., see Malviya, A.N.
Elliott, W.H., see Smeaton, J.R.
Ellis, R.A., see Ernst, S.A.
El-Negoumy, A.M.
Polymorphism in γ-casein fractions from the milk of individual cows (140)503
Elödi, P., see Beney, L.; see Libor, S.
Elovson, J.
Conversions of palmitic and stearic acid in the intact rat (106)291; Immediate fate of albumin-bound [1-^{14}C]-stearic acid following its intraportal injection into carbohydrate refed rats (106)480
—, Olivecrona, T. and Belfrage, P.
Metabolism in the rat of chyle obtained after feeding hydrogenated coconut oil labeled with stearic acid (106)34
—, see Belfrage, P.
Elsbach, P.
Phospholipid metabolism by phagocytic cells. I. A comparison of conversion of [^{32}P]lysolecithin to lecithin and glyceryl-phosphorylcholine by homogenates of rabbit polymorphonuclear leukocytes and alveolar macrophages (125)510
—, Van den Berg, J.W.O., Van den Bosch, H. and Van Deenen, L.L.M.
Metabolism of phospholipids by polymorphonuclear leukocytes (106)338
Elson, D., see Kivity-Vogel, T.
Emanoil-Ravicovitch, R., see Le Pecq, J.B.
Emerick, R.J., see Zile, M.H.
Emery, R.S.
— and Baldwin, R.L.
Turnover of several mammary enzymes during lactation (136)223
Emmelot, P.
— and Bos, C.J.
On the participation of neuraminidase-sensitive sialic acid in the K^+-dependent phosphohydrolysis of p-nitrophenyl phosphate by isolated rat-liver plasma membranes (115)244; Studies on plasma membranes. III. Mg^{2+}-ATPase, (Na^+-K^+-Mg^{2+})-ATPase and 5'-nucleotidase activity of plasma membranes isolated from rat liver (120)369; Studies on plasma membranes. II. K^+-dependent p-nitrophenylphosphatase activity of plasma membranes isolated from rat liver (121)375; Differences in the association of two glycolytic enzymes with plasma membranes isolated from rat liver and hepatoma (121)434
—, see Sluyser, M.
Endo, H., see Kato, K.; see Murota, S.
Endres, G.F.
—, Ehrenpreis, S. and Scheraga, H.A.

Endres, G.F. (continued)
Covalent bonding in the reversible polymerization of fibrin monomer (104)620
Eneroth, P.
— and Nyström, E.
A study on liquid–gel partition of steroids and steroid derivatives on lipophilic Sephadex gels (144)149
Engel, L.L., see Renwick, A.G.C.
Engelberg, H., see Silman, N.
Engelhard, H., see Zech, R.
Engelhorn, R., see Griss, G.
Engelman, D.M.
—, Terry, T.M. and Morowitz, H.J.
Characterization of the plasma membrane of Mycoplasma laidlawii. I. Sodium dodecyl sulfate solubilization (135)381
—, see Terry, T.M.
Enger, M.D., see Saponara, A.G.
Engfeldt, B., see Antonopoulos, C.A.
Engler, R., see Zolotor, L.
Englesberg, E., see Novotny, C.P.
Engström, L., see Zetterqvist, Ö.
Ennis, H.L., see Cohen, P.S.
Ennor, A.H., see Rosenberg, H.
Enomoto, H., see Muraoka, S.
Entenman, C., see Vahouny, G.V.
Entressangles, B.
—, Sari, H. and Desnuelle, P.
On the positional specificity of pancreatic lipase (125)598
—, see Creach, O.
Eoff, S.P., see Fried, M.
Epel, B.
— and Krauss, R.W.
The inhibitory effect of light on growth of Prototheca zopfii Kruger (120)73
Ephrati-Elizur, E., see Persky, S.
Epstein, C.J., see Friedmann, T.
Epstein, H.T.
— and Allaway, A.
Properties of selectively starved Euglena (142)195
Epstein, S.M., see Field, J.B.
Epstein, W., see Goldman, D.
Erbland, J.F.
—, Brossard, M. and Marinetti, G.V.
Controlling effects of ATP, Mg^{2+} and CTP in the biosynthesis of lipids (137)23
— and Marinetti, G.V.
Enzymatic acylation and hydrolysis of lysolecithin (106)128;
Metabolism of lysolecithin in rat-liver particulate systems (106)139
Erdmann, W.D., see Zech, R.
Erdody, P., see Murray, T.K.; see Varma, T.N.R.
Erdös, T.
— and Bessada, R.
Turnover of rRNA and sRNA in the rabbit uterus (129)628
—, see Waller, J.-P.
Erhardt, F.
—, Ostroy, S.E. and Abrahamson, E.W.
Protein configuration changes in the photolysis of rhodopsin. I. The thermal decay of cattle lumirhodopsin in vitro (112)256
—, see Ostroy, S.E.
Eriksson, G., see Dell'Acqua, S.
Eriksson, K.E., see Almin, K.E.
Eron, L.J.
— and McAuslan, B.R.
Inhibition of deoxyribonuclease action by actinomycin D and ethidium bromide (114)633
Ernst, S.A.
—, Goertemiller, Jr., C.C. and Ellis, R.A.
The effect of salt regimens on the development of (Na^+-K^+)-dependent ATPase activity during the growth of salt glands of ducklings (135)682
Ernster, L., see Lee, C-p.
Errera, M., see Krsmanovic, V.; see Levis, A.G.
Erwin, J.A.
—, Beach, D. and Holz, Jr., G.G.
Effect of dietary cholesterol on unsaturated fatty acid biosynthesis in a ciliated protozoan (125)614
Escribano, M.J.
—, Keilova, H. et Grabar, P.
Étude de la gliadine et de la gluténine après réduction ou oxydation (127)94
Esmann, V., see Hedeskov, C.J.
Estensen, R.D., see Baserga, R.
Estes, F.L.
Separation of peptide components of urine of patients with thermal burns by column chromatography (101)369
Estes, J.E., see Moss, C.
Estramareix, B., see David, S.
Evans, H.J., see Sorger, G.J.
Evans, W.H.
— and Rechcigl, Jr., M.
Factors influencing myeloperoxidase and catalase activities in polymorphonuclear leucocytes (148)243
Even-Shoshan, A., see Halpern, Y.S.
Ewald, W.
—, Werbin, H. and Chaikoff, I.L.
Evidence for the presence of 17-hydroxypregnenedione isomerase in beef adrenal cortex (111)306
—, see Werbin, H.
Ewetz, L.
— and Sörbo, B.
Characteristics of the cysteinesulfinate-forming enzyme system in rat liver (128)296
Eylar, E.H., see Cook, G.M.W.
Ezekiel, D.H.
— and Valulis, B.
Increase in functional tRNA during prolonged incubation in chloramphenicol (108)135;
Control of RNA synthesis in Escherichia coli cells with altered tRNA concentration (129)123
Ezekiel, E.
The iron-binding proteins in milk and the secretion of iron by the mammary gland in the rat (107)511

F

Falbriard, J.-G.
—, Posternal, Th. and Sutherland, E.W.
Preparation of derivatives of adenosine 3',5'-phosphate (148)99
Falcone, A.B.
— and Mao, R.L.
Effect of long-chain fatty acids on orthophosphate–adenosine 5'-triphosphate exchange activity associated with oxidative phosphorylation (105)233;
Catalysis of an oxygen exchange reaction between long-chain fatty acids and water by rat-liver mitochondria (105)246
Falkow, S., see Wohlhieter, J.A.
Fallon, H.J.
— and Bryne, W.L.
2-Phosphoglyceric acid phosphatase: Identification and properties of the beef-liver enzyme (105)43
—, Porter, G.A. and Edelman, I.S.
Aldosterone stimulation of sodium transport (135)74
Fantl, P.
The effect of fluoride on blood platelets (130)87
Faragó, A.
— and Dénes, G.
Mechanism of arginine biosynthesis in Chlamydomonas reinhardti. II. Purification and properties of N-acetylglutamate-5-phosphotransferase, the allosteric enzyme of the pathway (136)6;
On the nature of the allosteric transition of N-acetylglutamate-5-phosphotransferase (139)521
Farbiszewski, R.
—, Niewiarowski, S. and Poplawski, A.
Purification and separation of platelet factor 2(fibrinogen activating factor) and of platelet factor 4 (antiheparin factor) (115)397
Fardy, M.A., see Runyan, W.S.
Farina, M.V.
—, Polli, E.E. and Bianchi, P.A.
The presence of thymidilate kinase in human erythrocytes (103)512
Farley, B., see Harary, I.
Farnararo, M., see Melani, F.
Farnham, A.E.
— and Dubin, D.T.
Studies on the mechanism of action of puromycin aminonucleoside in L cells (138)35
Farnham, G., see Silber, R.
Farnsworth, R.K., see Bohn, T.S.
Farnsworth, W.E.
Testosterone stimulation of citric acid synthesis in the rat prostate (117)247
Farstad, M.
A palmityl-CoA synthetase stimulating factor of particle-free supernatants (146)272
—, Bremer, J. and Norum, K.R.
Long-chain acyl-CoA synthetase in rat liver. A new assay procedure for the enzyme, and studies on its intracellular localization (132)492
Fasella, P.
—, Hammes, G.G. and Schimmel, P.R.
Sephadex dialysis method of determining small molecule–macromolecule binding constants (103)708
Fathipour, A.
—, Schlender, K.K. and Sell, H.M.
The occurrence of fatty acid methyl esters in the pollen of Zea mays (144)476
Faulhaber, I.
— and Bernardi, G.
Chromatography of calf thymus nucleoprotein on hydroxyapatite columns (140)160
Faust, R.G.
— and Wu, S.-M.L.
Observations on the active transport of bile salts by rat and hamster ileum in vitro (120)299
—, see Parkins, F.M.
Favarger, P., see Abelin, G.
Fay, P.
— and Cox, R.M.
Decarboxylation performed by particulate fractions of two nitrogen-fixing blue-green algae (126)402;
Oxygen inhibition of nitrogen fixation in cell-free preparations of blue-green algae (143)562
Federighi, G., see Rosa, U.
Feeney, J., see Dunphy, P.J.
Feeney, R.E., see Feinstein, G.; see Mohammadzadeh-K., A.; see Simlot, M.M.
Feigelson, M., see Betheil, J.J.
Feigenblum, E.
— and Krasna, A.I.
Evolution of hydrogen gas from nicotinamide nucleotides by Proteus vulgaris (141)250
Feingold, D.S., see Ankel, H.; see Chiu, T.H.
Feinstein, G.
— and Feeney, R.E.
Chemical modification of the methionine residues in turkey ovomucoid (140)55
Feinstein, M.B.
— and Paimre, M.
Specific reaction of local anesthetics with phosphodiester groups (115)33
Feitelson, J., see Grinspan, H.
Feitknecht, U.F., see Way, J.L.
Feldman, E.B.
— and Borgström, B.
Phase distribution of sterols: Studies by gel filtration (125)136;
Absorption of sterols by intestinal slices in vitro (125)148
Feldman, F.
— and Lichtman, H.C.
Δ-Aminolevulinate synthetase activity in the human reticulocyte (141)653
Feldman, M.Ya.
Reaction of formaldehyde with nucleotides and RNA (149)20

Felgenhauer, K.
Microelectrophoresis on polyacrylamide gel (133)165
Felicetti, L.
—, Colombo, B. and Baglioni, C.
Inhibition of protein synthesis in reticulocytes by antibiotics. II. The site of action of cycloheximide, streptovitacin A and pactamycin (119)120;
Assembly of hemoglobin (129)380
—, see Colombo, B.
Félix, F.
— et Brouillet, N.
Purification et propriétés de deux peptidases de levure de brasserie (122)127
Fellman, J.H., see Gaudin, D.
Feltkamp, C.A., see Kwa, H.G.
Felton, J.H., see Person, P.
Fenster, L.J.
— and Copenhaver, Jr., J.H.
Phosphatidyl serine requirement of Na^+, K^+-activated ATPase from rat kidney and brain (137)406
Fernández, M.J.
— and Ruíz-Amil, M.
Tartaric acid metabolism in Rhodotorula glutinis (107)383
Fernández, M.S., see Vilallonga, F.
Ferrando, G.
— and Zipper, J.
Biosynthesis of uterine endocervical mucoprotein in the guinea pig (136)404
Ferretti, J.J.
— and Gray, E.D.
Studies on the adaptive formation of photosynthetic structures in Rhodopseudomonas spheroides. II. Nucleotide compositions during adaptation (138)564
Fesler, K.W., see Sellinger, O.Z.
Fessas, P.
—, Loukopoulos, D. and Klatsoya, A.
Peptide analysis of the inclusions of erythroid cells in β-thalassemia (124)430
Fessler, A.
— and Beck, J.C.
Effect of insulin on the metabolism of human adipose tissue in vitro (106)199
Fessler, J.H.
— and Bailey, A.J.
Cleavage in vitro of the cross-links in gelatin by β-aminopropionitrile (117)368
— and Vinograd, J.
A thermal valve for ultracentrifuge cells (103)160
Feuser, B., see Rau, W.
Fiala, E.S.
— and Litwack, G.
Binding of a [^{14}C]hydrocortisone metabolite in liver supernatant (124)260
—, see Fiala, S.; see Litwack, G.
Fiala, S.
— and Fiala, E.S.
Hormonal dependence of actidione (cycloheximide) action (103)699
Fialkow, H., see Morgan, T.E.
Fiancette, C., see Vasilescu, D.
Fiddick, R.
— and Heath, H.
The separation of bound ascorbic acid from rat adrenals by gel filtration (136)206
Fidge, N.H., see Day, A.J.
Field, J.B.
—, Epstein, S.M., Remer, A.K. and Boyle, C.
Pyridine nucleotides in the thyroid. VI. Diphosphopyridine nucleotide kinase activity of thyroid homogenate obtained from slices incubated with and without thyroid stimulating hormone (121)241
—, see Altman, M.; see Jarrett, R.J.
Field, M.
—, Schultz, S.G. and Curran, P.F.
Alanine transport across isolated rabbit ileum (135)236
Field, R.A.
— and Adams, L.C.
Insulin response of peripheral nerve. II. Effects on lipid metabolism (106)474
Fieldhouse, B.
— and Masters, C.J.
Developmental redistributions of porcine lactate dehydrogenase (118)538
Fiers, W., see Vandenbussche, P.
Figard, P.H.
— and Levine, A.S.
Incorporation of labeled precursors into lipids of tumors induced by Rous sarcoma virus (125)428;
Palmitate and glucose metabolism in tumors induced by Rous sarcoma virus (144)532
Filipek-Wender, H., see Morgan, R.G.H.
Filitti-Wurmser, S.
—, Gentou, C. and Hartmann, L.
Poids moléculaires des macroglobulines IgM des sérums humains normaux. Association IgM–IgG (121)175
Filner, P.
Regulation of nitrate reductase in cultured tobacco cells (118)299
—, see Schwimmer, S.
Filosa, R.J., see Litwack, G.
Fimognari, G.M.
—, Porter, G.A. and Edelman, I.S.
The role of tricarboxylic acid cycle in the action of aldosterone on sodium transport (135)89
Finamore, F.J., see Warner, A.H.
Finazzi-Agrò, A., see Mondovì, B.
Finck, H.
Immunochemical studies on myosin. I. Effects of different methods of preparation on the immunochemical properties of chicken skeletal muscle myosin (111)208;
Immunochemical studies on myosin. II. Cardiac myosin (111)221;
Immunochemical studies on myosin. III. Immunochemical comparison of myosins from chicken skeletal, heart and smooth muscles (111)231;
Immunochemical studies on myosin. IV. Immunochemical comparison of rabbit and chicken skeletal muscle myosins (111)239
Finean, J.B., see Coleman, R.; see Thompson, J.E.
Finelli, V.N., see Hauser, G.
Finerman, G.A.M.
—, Downing, S. and Rosenberg, L.E.
Amino acid transport in bone. II. Regulation of collagen synthesis by perturbation of proline transport (135)1008
Finger, H.

— und Schaeg, W.
Die Antigenität des photooxidierten Insulins (140)532
—, see Schaeg, W.
Finkler, A.E., see Hall, C.A.
Finlayson, J.S.
— and Mushinski, J.F.
Separation of subfractions of human β_2-glycoprotein I (147)413
Finley, T.N., see Morgan, T.E.
Firshein, W.
—, Berry, S.J. and Swindlehurst, M.
The biosynthesis of DNA by insects. I. The utilization of deoxycytidine by developing adults of the Cecropia silkworm (149)190
Fischer, D.J.
—, Downs, J.J., Herner, A.E. and Batlin, A.
Stimulation of free radical formation in Arthrobacter sp. by manganous ions (104)591
Fischer, Jr., E., see Schoellmann, G.
Fischer, I.
— and Laudelout, H.
Differential P/O ratio in Nitrobacter (110)204;
Oxidative phosphorylation in Nitrobacter winogradskyi (110)259
Fischer, R.R.
— and Guillory, R.J.
Inhibition of the energy conservation reactions of Rhodospirillum rubrum by Dio-9 (143)654
Fisher, C.J.
— and Stetten, M.R.
Parallel changes in vivo in microsomal inorganic pyrophosphatase pyrophosphate–glucose phosphotransferase and glucose 6-phosphate activities (121)102
Fisher, D.B., see Kadish, L.J.
Fisher, H.F.
An upper limit to the amount of hydration of a protein molecule. A corollary to the "Limiting law of protein structure" (109)544
Fisher, R.F.
—, Haine, A.C., Mathias, A.P. and Rabin, B.R.
Nature of enzyme–coenzyme interactions in liver alcohol dehydrogenase (139)169
Fishkin, A.F., see Radhakrishnamurthy, B.
Fiskin, A.M.
— and Beer, M.
Guanosine and uridine specific reagent for study of base sequence in nucleic acids (108)159
Fitzsimons, J.T.R., see El-Aasser, A.A.
Fiume, L.
— and Stirpe, F.
Decreased RNA content in mouse-liver nuclei after intoxication with α-amanitin (123)643
Flamm, W.G.
—, Bond, H.E. and Burr, H.E.
Density-gradient cnetrifugation of DNA in a fixed-angle rotor; a higher order or resolution (129)310
—, Bond, H.E., Burr, H.E. and Bond, S.B.
Satellite DNA isolated from mouse liver: Some physical and metabolic properties (123)652
—, see Counts, W.B.; see O'Neal Nicolson, M.
Flanagan, B., see Rosenbusch, J.P.
Flanzy, J., see Raulin, J.
Flashner, M.
— and Lukton, A.
The effect of ^2H_2O on the activity of α-amylase (146)596
Flaumenhaft, E., see Uphaus, R.A.
Flavin, M.
— and Slaughter, C.
Enzymatic synthesis of homocysteine or methionine directly from O-succinylhomoserine (132)400;
The derepression and function of enzymes of reverse trans-sulfuration in Neurospora (132)406
—, see Kaplan, M.M.
Fleck, A.
— and Begg, D.
The estimation of RNA using ultraviolet absorption measurements (108)333
Fleischer, B.
— and Fleischer, S.
Interaction of the protein moiety of bovine serum α-lipoprotein with phospholipid micelles. II. Isolation and characterization of the complexes (147)566
—, Sekuzu, I. and Fleischer, S.
Interaction of the protein moiety of bovine serum α-lipoprotein with phospholipid micelles. I. The use of lipid-requiring enzymes as assay systems (147)552
Fleischer, S., see Fleischer, B.
Fleisher, M., see Slobodian, E.S.
Floridi, A., see Forlani, A.
Florkin, M., see Bricteux-Gregoire, S.
Floyd, L.
—, Okamura, N. and Busch, H.
Base composition of rapidly sedimenting nuclear RNA of the regenerating liver (129)68
Folch-Pi, J., see Tenenbaum, D.
Folk, J.E.
— and Cole, P.W.
Transglutaminase: Mechanistic features of the active site as determined by kinetic and inhibitor studies (122)244
—, see Tobita, T.
Folkes, J.P., see Gale, E.F.
Font, J., see Got, R.
Forbes, W.F.
— and Sullivan, P.D.
The effect of radiation on collagen. I. Electron spin resonance spectra of 2537 Å-irradiated collagen (120)222
Forchielli, E., see Drosdowsky, M.; see Menon, K.J.M.
Ford, J.D., see Cunningham, L.
Fork, D.C.
— and Amesz, J.
Energy transfer between photosynthetic units of System 1 in algae (143)266
—, see Amesz, J.
Forlani, L.
—, Chiancone, E., Vacchini, P., Floridi, A., D'Alessio, G. and Leone, E.
Ultracentrifugal analysis of seminal ribonuclease (140)170
—, see Chiancone, E.
Forrest, H.S., see Kobayashi, K.
Forsheit, A.B.
— and Hayashi, T.

Forsheit, A.B. (continued)
— and Hayashi, T.
The effects of colchicine on contractile proteins (147)546
Forster, L.S., see Fox, J.L.
Forstner, G., see Crane, R.K.
Forte, J.G.
—, Adams, P.H. and Davies, R.E.
Acid secretion and phosphate metabolism in bullfrog gastric mucosa (104)25
—, see Helbock, H.J.
Forti, G.
—, Bertolè, M.L. and Zanetti, G.
Purification and properties of cytochrome f from parsley leaves (109)33
—, see Parenti, F.
Fortier, N.L., see Lionetti, F.J.
Fortoul, J.I., see Nicholson, W.J.
Foster, D.W.
— and Katz, J.
The distribution of tritium in fatty acids synthesized from tritiated glucose and tritiated water by rat adipose tissue (125)422
Foster, R.
— and Fyfe, C.A.
Electron-donor–acceptor complex formation by compounds of biological interest. II (112)490
— and Hanson, P.
Electron-donor–acceptor complex formation by compounds of biological interest. I (112)482
Fotia, A., see Moret, V.
Foucher, B., see Gaudemer, Y.
Fowler, R., see Samachson, J.
Fox, A.C.
— and Klein, M.D.
An immunochemical comparison of myosin from canine heart and skeletal muscle (127)232
Fox, J.L.
—, LaBerge, S.P., Nishimoto, K. and Forster, L.S.
Electronic structures of lumazines and isoalloxazines (136)544
—, Nishimoto, K. and Forster, L.S.
Self-consistent field calculations of isoalloxazine (109)626
Fox, M., see Thier, S.O.
Fox, S.W.
— and Nakashima, T.
Fractionation and characterization of an amidated thermal 1:1:1-proteinoid (140)155
—, see Schwartz, A.W.; see Waehneldt, T.V.
Frackowiak, B., see Bryła, J.
Fraenkel-Conrat, H., see Pfrogner, N.; see Singer, B.
Francavilla, A., see Papa, S.
Franceschini, P., see Parenti, F.
Francke, A., see Scheit, K.-H.
Francois, C.J.
— and Glimcher, M.J.
The hexose content of the chains of codfish skin collagen (127)556;
The isolation and amino acid composition of α chains of chicken bone collagen (133)91
—, see Krane, S.M.
Fraňek, F., see Škvařil, F.
Franek, M.D.
— and Dunstone, J.R.
Density gradient centrifugation in the isolation of polysaccharide–protein complexes from aortic tissue (127)213
Frank, H., see Anderer, F.A.
Franklin, Jr., J.E., see Askari, A.
Franklin, T.J.
—, Jones, C.W. and Redfearn, E.R.
Effect of substituted thiophens on the electron transport and ATPase activities of respiratory particles (131)240
Fransson, L.-Å., see Antonopoulos, C.A.
Fraser, D., see Mendelson, N.H.
Frati, L., see Angeletti, P.U.
Frayssinet, C., see De Recondo, A.M.
Fredericq, E., see Hacha, R.; see Houssier, C.
Free, C.A.
—, Julius, M., Arnow, P. and Barry, G.T.
Inhibition of alanine racemase by aminoxyacetic acid (146)608
Freed, S.
—, Neyfakh, E.A. and Tumerman, L.A.
Influence of solvents on the intramolecular energy transfer in NADH (143)432
—, see Bielski, B.H.J.
Freedland, R.A., see Aalund, O.
Freedman, M.I., see Waxman, H.S.
Freeman, G., see Yolles, R.S.
Freeman, S., see Jackson, J.E.
Freer, J.H., see Salton, M.R.J.
Freese, E.
—, Freese, E.B. and Graham, S.
The oxygen-dependent reaction on hydroxylamine with nucleotides and DNA (123)17
Freese, E.B., see Freese, E.
Freifelder, D.
Rapid technique for the preparation of purified bacteriophage DNA or RNA from crude lysates (108)318
Frenster, J.H., see Rose, H.G.
Frentz, G.D.
—, Miller, O.N. and Hansen, H.J.
Comparison of antigenic acid and chemical similarities between vitamin B_{12}-binders of human gastric juice and vitamin B_{12}-binders extracted from the mucosa of chimpanzee (Pan troglodytes) stomach (147)162
Frey, J.
Étude d'une méthode d'exploration et du taux normal de l'hydroxyproline du serum (111)440
Fridlender, B., see Kaye, A.M.
Fridovich, I.
Electron transfer between ferro- and ferricytochrome c (118)419
Fried, M.
— and Eoff, S.P.
Unequal incorporation of amino acids into plasma albumin by the isolated perfused rat liver (149)607
—, see Delcher, H.K.; see Wilcox, H.G.
Friedberg, I.
— and Avigad, G.
High lysozyme concentration and lysis of Micrococcus lysodeikticus (127)532
Friedel, R.O.
—, Brown, J.D. and Durell, J.
Monophosphatidyl inositol inositolphosphohydrolase in guinea-pig brain (144)684
Friederici, D., see Weissmann, B.

Friedhoff, A.J., see Schweitzer, J.W.
Friedman, M., see Byers, S.O.; see Weser, E.
Friedman, M.E.
— and Scheraga, H.A.
Iodination of ribonuclease in the presence of cytidine 3'-phosphate (128)576
Friedman, O.M.
—, Mahapatra, G.N., Das, B. and Stevenson, R.
Studies on the action of diazomethane on DNA. The action of diazomethane on deoxyribonucleosides (103)286
Friedman, S.M.
— and Weinstein, I.B.
Protein synthesis in a subcellular system from Bacillus stearothermophilus (114)593
Friedmann, T.
— and Epstein, C.J.
The incorporation of [^{3}H]leucine into protein by tetraphenylboron- and citrate-dispersed rat liver parenchymal cells (138)622
— and Johnson, P.
The disaggregation of Tamm–Horsfall mucoprotein by acetic acid (121)292;
Further characterization of the subunit of Tamm–Horsfall mucoprotein (130)355
Frilley, M., see Apelgot, S.
Frisell, W.R.
— and Sorrell, N.C.
Oxidative phosphorylation in the metabolism of sarcosine and formaldehyde (131)207
—, see Van Buskirk, J.J.
Fritz, R.R., see Yamagami, S.
Fritzsche, H.
Infrarotspektroskopische Verfolgung des Helix–Coil-Übergangs von DNA in Deuteriumoxid (119)645;
Infrared studies of DNA's, their constituents and analogues. III. Evidence of slow isotopic exchange of hydrogen attached to carbon in DNA (149)173
Fröberg, S.O.
Determination of muscle lipids (144)83
Froesch, E.R.
—, Müller, W.A., Bürgi, H., Waldvogel, M. and Labhart, A.
Non-suppressible insulin-like activity of human serum. II. Biological properties of plasma extracts with non-suppressible insulin-like activity (121)360
—, see Bürgi, H.
Frøholm, L.O., see Holm, H.
Frohwein, Y.Z.
— and Gatt, S.
Separation of β-N-acetylglucosaminidase and β-N-acetylgalactosaminidase from calf brain cytoplasm (128)216
Fromageot, P., see Boquet, P.L.; see Darlix, J.L.; see Ueno, Y.
Fromm, H.J.
The use of competitive inhibitors in studying the mechanism of action of some enzyme system utilizing three substrates (139)221
Frontali, L., see Arcà, M.
Fronticelli, C., see Antonini, E.
Fröysa, B., see Mancuso, S.
Frunder, H., see Kluge, H.
Frydman, R.B.
—, De Souza, B.C. and Cardini, C.E.
Distribution of adenosine diphosphate D-glucose: α-1,4-glucan α-4-glucosyltransferase in higher plants (113)620
Fry-Shafrir, I., see Lapidot, Y.
Fu, H.C., see Reiser, R.
Fuchs, S., see Hurwitz, E.
Fučik, V., see Zadražil, S.
Fudenberg, H.H., see James, K.
Fuisz, R.E.
—, Schultz, S.G. and Curran, P.F.
Effect of sodium on L-alanine flux across the mucosal border of intestine (112)593
Fujimori, E., see Pecci, J.
Fujimoto, D.
Biosynthesis of collagen hydroxyproline in Ascaris (140)148
— and Adams, E.
D-Serine dehydrase of earthworm tissues (105)596;
Proline incorporation into the proline and hydroxyproline of earthworm cuticle collagen (107)232
Fujimura, S.
—, Hasegawa, S., Shimizu, Y. and Sugimura, T.
Polymerization of the adenosine 5'-diphosphate–ribose moiety of nicotinamide–adenine dinucleotide by nuclear enzyme. I. Enzymatic reactions (145)247
—, Hasegawa, S. and Sugimura, T.
Nicotinamide mononucleotide-dependent incorporation of ATP into acid-insoluble material in rat liver nuclei preparation (134)496
—, see Hasegawa, S.; see Sugimura, T.
Fujimura, Y.
— and Miura, K.
Variety in the partial structure of alanine tRNA from various sources (129)409
Fujita, M.
—, Nakao, T., Tashima, Y., Mizuno, N., Nagano, K. and Nakao, M.
K^+-stimulated p-nitrophenylphosphatase activity occurring in a highly specific ATPase preparation from rabbit brain (117)42
—, see Nagano, K.
Fujiwara, N., see Noda, M.
Fukada, T., see Yoshikawa-Fukada, M.
Fukazawa, T.
— and Yasui, T.
The change in zigzag configuration of the Z-line of myofibrils (140)534
Fukuhara, H.
Protein synthesis in non-growing yeast. Respiratory adaptation system (134)143
Fukui, S., see Yamada, R.; see Yamane, T.
Fulco, A.J.
Biosynthesis of Δ^9 monounsaturated fatty acids of the ice-plant, Carpobrotus chilense (106)211;
The effect of temperature on the formation of 5-unsaturated fatty acids by bacilli (144)701
Fuller, G., see Patton, S.
Fuller, R.C., see Anderson, L.
Furedi, A., see Danon, D.
Furlan, M.
— and Jericijo, M.
Protein catabolism in thymus nuclei. I. Hydrolysis of nucleoproteins by proteases

Furlan, M. (continued)
present in calf-thymus nuclei (147)135;
Protein catabolism in thymus nuclei. II. Binding of histone-splitting nuclear proteases to DNA (147)145
Furlong, N.B.
DNA polymerase from Walker 256 carcinosarcoma (108)489;
Effects of oligonucleotides on the Walker 256 carcinosarcoma DNA polymerase reaction (114)491
—, Williams, N.L. and Willis, D.P.
Enhancement of tritium-counting efficiency on paper discs after incorporation into [^{3}H]DNA (103)341
Furmanski, Ph., see Wegener, W.S.
Furth, J.J., see Hopper, D.K.
Furuichi, Y., see Yoshida, M.
Futai, M.
—, Anraku, Y. and Mizuno, D.
The roles of three enzymes in mRNA degradation in cell-free systems from normal or phage-infected Escherichia coli (119)373
—, see Nishimura, T.
Fyfe, C., see Foster, R.

G

Gaál, Ö., see Székely, M.
Gaarder, A.
— and Prydz, H.
The subcellular localization of Factor VII (proconvertin) in rat liver (140)545
Gabrielyan, N.D., see Budowsky, E.I.
Gadaleta, M.N., see Saccone, C.
Gaeta, F.S., see Bibring, T.
Gaetani, S., see Di Girolamo, A.
Gaetjens, E.
— and Bárány, M.
N-Acetylaspartic acid in G-actin (117)176
Gaffney, Jr., P.J., see Jamieson, G.A.
Gainer, H.
Plasma membrane structure: Effects of hydrolases on muscle resting potentials (135)560
Gal, A.E., see Kampine, J.P.
Galambos, J.T., see Hirooka, T.
Galdiero, F.
The kinetics of potassium exchange in cells of Staphylococcus aureus (126)54
Galdston, M.
— and Shah, D.O.
Surface properties and hysteresis of dipalmitoyl lecithin in relation to alveolar lining layer (137)255
Gale, E.F.
— and Folkes, J.P.
The effect of amino acids on lipid synthesis in Staphylococcus aureus (144)452;
The effect of lipids on the accumulation of certain amino acids by Staphylococcus aureus (144)461;
Actions of pentamidine on the metabolism of Staphylococcus aureus (144)467
Galenter, Y., see Katchalski, E.
Galibert, F.
—, Lelong, J.C., Larsen, Ch.J. and Boiron, M.
Position of 5-S RNA among cellular RNA's (142)89
Gallagher, N.I., see Lewis, J.P.
Gallai-Hatchard, J.J.
— and Gray, G.M.
Isolation and partial characterisation of the glycolipids from pig lung (116)532
Gallant, J.
— and Spottswood, T.
Escape synthesis of alkaline phosphatase (103)109
Galliard, T.
—, Michell, R.H. and Hawthorne, J.N.
Incorporation of phosphate into diphosphoinositide by subcellular fractions from liver (106)551
Gallien-Lartigue, O.
— and Goldwasser, E.
On the mechanism of erythropoietin-induced differentiation. I. The effects of a specific inhibitor on hemoglobin synthesis (103)319
Galling, G.
— and Richter, G.
Intracellular distribution and base composition of rapidly labelled RNA fractions in Chlorella (123)613
Gallwitz, D., see Schmid, W.
Galzigna, L., see Marzotto, A.
Gamble, W.
—, Nayar, G.H. and Kiersky, E.S.
Bovine aorta ribonuclease (145)260
Gamborg, O.L.
Aromatic metabolism in plants. III. Quinate dehydrogenase from mung bean cell suspension cultures (128)483
— and Keeley, F.W.
Aromatic metabolism in plants. I. A study of the prephenate dehydrogenase from bean plants (115)65
Gammack, D.B., see Attwood, D.
Gan, J.C.
— and Jeffay, H.
Origins and metabolism of the intracellular amino acid pools in rat liver and muscle (148)448
—, Trujillo, J.L. and Chaikoff, I.L.
Biosynthesis of thyroidal glycoprotein. I. Uptake and incorporation of D-[1-^{14}C]-glucosamine into proteins of sheep thyroid gland slices and isolated cells (136)351;
Biosynthesis of thyroidal glycoproteins. II. Incorporation of D-[1-^{14}C]glucosamine into macromolecules by isolated thyroid cells. Effects of thyroid-stimulating hormone and puromycin (148)406
Gander, J.E., see Maynard, D.E.
Ganguly, J., see Deshmukh, D.S.
Ganguly, P.
The negative staining of protein molecules (112)565
— and Sanyal, A.B.
Interaction of uranyl-tartrate complex with haemoglobin (109)306
—, see Sanyal, A.B.
García, A., see Peña, A.
Garcia, A.F., see Vernon, L.P.
García Mendoza, C.
— and Villanueva, J.R.
Preparation and composition of the protoplast membrane of Candida utilis (135)189
Gardas, A., see Kaniuga, Z.
Gardell, S., see Antonopoulos, C.A.; see Heinegård, D.; see Olsson, I.; see Szirmai, J.A.
Gardiennet, M.C., see Béchet, J-J.
Gardiner, W.L.
—, Brooks, C.J.W., Horning, E.C. and Hill, R.M.
Urinary steroid pattern of the human newborn infant (130)278
— and Horning, E.C.
Gas–liquid chromatographic separation of C_{19} and C_{21} human urinary steroids by a new procedure (115)524
Garfinkel, A.S., see Schotz, M.C.
Garner, H.R., see Jenkins, M.B.; see Sojka, G.A.; see Wiebers, J.L.

Garratt, C.J.
—, Cameron, J.S. and Menzinger, G.
The association of [^{131}I]iodo-insulin with rat diaphragm muscle and its effect on glucose uptake (115)179
—, Jarrett, R.J. and Keen, H.
The relationship between insulin association with tissues and insulin action (121)143
Garrido-Pinson, G.C.
—, Turner, M.D., Miller, L.L. and Segal, H.L.
Gel filtration of vitamin B_{12}-binding materials from human gastric juice and gastric mucosa (127)478
Garrison, A., see Portela, A.
Garro, A.J., see Rosenkranz, H.S.
Garza, R., see Walter, H.
Gascoigne, I.M.
— and Radda, G.K.
The chemistry of flavins and flavoproteins. III. The reaction of dihydrolipoic acid with flavins (131)498
Gascón, S., see Novaes, M.
Gasior, E.
—, Ibuki, F. and Moldave, K.
Interaction between aminoacyl-sRNA and one of the aminoacyl-transferring enzymes (transferase I) in protein synthesis (114)209
—, see Sutter, R.P.
Gass, J.B., see Body, D.R.
Gass, J.P., see Shorland, F.B.
Gastambide-Odier, M.
—, Delaumeny, J.M. et Küntzel, H.
Biosynthèse des acides phtiénoïques. Incorporation d'acide propionique (125)33
Gatica, M.
—, Allende, C.C., Mora, G., Allende, J.E. and Medina, J.
The effect of pH on the stability of several aminoacyl-sRNA's (129)201
Gatt, S.
Enzymatic hydrolysis of sphingolipids. V. Hydrolysis of monosialoganglioside and hexosylceramides by rat brain β-galactosidase (137)192
— and Rapport, M.M.
Isolation of β-galactosidase and β-glucosidase from brain (113)567
—, see Frohwein, Y.Z.
Gaudemer, Y.
— et Foucher, B.
Influence de l'éthacrynate de sodium sur quelques réactions liées au mécanisme des oxydations phosphorylantes (131)255
Gaudin, D.
— and Fellman, J.H.
The biosynthesis of DOPA in albino skin (141)64
Gaumert, R., see Berndt, J.
Gause, E.M.
—, Montalvo, D.A. and Rowlands, J.R.
Electron spin resonance studies of the chloranil–cysteine, dichlone–cysteine and dichlone–glutathione reactions (141)217
Gauthier, P.B.
— and Kenyon, A.J.
Temperature dependence of carbazole reaction for glucuronides (130)551
Gaylor, J.L., see Miller, W.L.
Gehring, D., see Goedde, H.W.
Geissler, E.
Untersuchungen über den Mechanismus der Induktion lysogener Bakterien. IX. Die Temperaturabhängigkeit der Induktion durch Thymin Mangel und Mitomycin C (114)116
Gelbard, A.S., see Kim, J.H.
Gelboin, H.V., see Weksler, M.E.
Gellermann, J.L., see Schlenk, H.
Gellhorn, A.
— and Benjamin, W.
Effect of insulin on monounsaturated fatty acid synthesis in diabetic rats. The stability of the informational RNA and of the enzyme system concerned with fatty acid desaturation (116)460
Genchev, D.D., see Hadjiolov, A.A.
Genov, N., see Nedkov, P.
Gentou, C., see Filitti-Wurmser, S.
Georgatsos, J.G.
The exonucleolytic nature of an alkaline deoxyribonuclease of mammary tumors of C3H mice (129)204;
Bond-cleaving specificity of a deoxyribonuclease II from mouse mammary tumors (142)128
George, H.
— and Meister, A.
Purification and properties of L-valyl-sRNA synthetase from Escherichia coli (132)165
Georgiev, G.P., see Arion, V.J.; see Samarina, O.P.
Gerbeck, C.M.
—, Rafelson, Jr., M.E. and Bezkorovainy, A.
Glycopeptide obtained from human haptoglobin (101)229
Gerbrandy, S.J., see De Vries, W.
Gerlach, E., see Omachi, A.
Gero, S.D.
— et Burstein, C.
Préparation de thio-1-β-D-galactopyranosides et détermination de leur pouvoir inducteur pour l'opéron lactose (117)314
Gerschenson, L.E.
—, Harary, I. and Mead, J.F.
Studies in vitro on single beating rat-heart cells. X. The effect of linoleic and palmitic acids on beating and mitochondrial phosphorylation (131)50
—, Mead, J.F., Harary, I. and Haggerty, Jr., D.F.
Studies on effects of essential fatty acids on growth rate, fatty acid composition, oxidative phosphorylation and respiratory control of HeLa cells in culture (131)42
Gershanovitch, V.N.
—, Bourd, G.I., Jurovitzkaya, N.V., Skavronskaya, A.G., Klyutchova, V.V. and Shabolenko, V.P.
β-Galactosidase induction in cells of Escherichia coli not utilizing glucose (134)188
Gertler, A.
— and Birk, Y.
The role of sulphydryl groups in soybean β-amylase (118)98
—, see Birk, Y.
Gertler, M.M., see Plechaty, M.
Gerwing, J.
—, Ko, A., Van Alstyne, D. and Tremaine, J.H.
Studies on the active region of botulinus toxins. I. Involvement and characterization of a peptide in the region of the single

cysteine residue in botulinus toxins types A, B and E (117)487
—, Mitchell, B. and Van Alstyne, D.
Studies on the active region of botulinus toxins. II. Isolation and amino acid sequence of the cysteine-containing tryptic peptides in botulinus toxins types, A, B and E (140)363
Gerzon, K.
—, Johnson, I.S., Boder, G.B., Cline, J.C., Simpson, P.J., Speth, C., Leonard, N.J. and Laursen, R.A.
Biological activities of 3-isoadenosine (119)445
Geyer, R.P., see Runyan, W.S.
Gholson, R.K., see Ogasawara, N.; see Yamaguchi, K.
Ghosh, A.K.
— and Bhattacharyya, S.N.
Changes in the respiratory and glycolytic behaviour of S. carlsbergensis due to inositol deficiency (136)19
—, Govindjee, Crespi, H.L. and Katz, J.J.
Fluorescence studies on deuterated Chlorella vulgaris (120)19
Gibbon, J.A., see Sykes, J.
Gibbs, C.C., see Hilf, R.
Gibbs, M., see Russell, G.K.
Gibson, D.M., see Hicks, S.E.
Gibson, F.
—, Pittard, J. and Reich, E.
Ammonium ions as the source of nitrogen for tryptophan biosynthesis in whole cells of Escherichia coli (136)573
—, see Cotton, R.G.H.; see Egan, A.F.; see Jackman, L.M.; see Young, I.G.
Gibson, J., see Morita, S.
Gilëv, V.P.
The ultrastructure of lyofilaments. II. Further investigation of the thick filaments of crab muscles (112)340
Gill, D.M.
Incorporation of [^{14}C]arginine into rat liver proteins catalysed by soluble enzymes only (145)792
Gill, E.W.
A simple spectro-refractometer (102)302; Optical rotatory dispersion of some aromatic amino acids and peptides (133)381
Gill, S.J., see Weida, B.
Gill, III, T.J.
— and Kunz, H.W.
Studies on synthetic polypeptide antigens. XVI. The immunogenicity of synthetic polypeptide aggregates (124)374
Gillespie, E.
Homo- and hetero-exchange diffusion of amino acids in Ehrlich ascites carcinoma cells (135)1016
Gillmor, R.G., see Lynch, V.H.
Gilmour, K.E.
— and McKerns, K.W.
Insulin and estrogen regulation of lipid synthesis in adipose tissue (116)220
Gilmour, M.V.
—, Wilson, D.F. and Lemberg, R.
The low-temperature spectral properties of mammalian cytochrome oxidase. III. The enzyme isolated from beef heart mitochondria (143)487
—, see Lemberg, R.; see Wilson, D.F.
Gindl, H., see Eckstein, F.
Ginelli, E., see Polli, E.
Gingras, G.
— and Lemasson, C.
A study of the mode of action of 3-(4-chlorophenyl)-1,1-dimethylurea on photosynthesis (109)67
Ginsburg, V., see Kornfeld, R.H.
Ginzburg-Teitz, Y.
—, Kaufmann, E. and Traub, A.
A one-step method for the isolation of nuclei from Krebs-2 tumor cells (134)211
Giorgio, A.J.
— and Plaut, G.W.E.
The effect of univalent cations on activities catalyzed by bovine liver propionyl-CoA carboxylase (139)487
Giordana, B., see Lippe, C.
Giordano, M.G., see Cerletti, P.
Giovanelli, J.
Oxalyl-CoA synthetase from pea seeds (118)124
Giovenco, M.A., see Cerletti, P.
Giovenco, S., see Cerletti, P.
Girshovich, A.S.
—, Knorre, D.G., Helidova, O.D. and Ovander, M.N.
Inactivation of acceptor activity of sRNA by means of N-cyclohexyl, N'-β(4-methylmorpholinium)ethyl carbodiimide p-toluenesulphonate (119)216
Gitlin, D.
— and Kitzes, J.
Synthesis of serum albumin, embryo-specific α-globulin and conalbumin by the chick yolk sac (147)334
Gits, J.J.
— and Grenson, M.
Multiplicity of the amino acid permeases in Saccharomyces cerevisiae. III. Evidence for a specific methionine-transporting system (135)507
Gittelson, B.L.
— and Walker, I.O.
The interaction of proflavine with DNA and deoxyribonucleohistone (138)619
Giudice, G.
— and Mutolo, V.
Synthesis of rRNA during sea-urchin development (138)276
—, Mutolo, V. and Moscona, A.A.
The role of cell interactions in the control of RNA synthesis (138)607
—, see Mutolo, V.; see Pfohl, R.J.
Giuditta, A.
— and Casola, L.
Mechanism of barbiturate inhibition on purified flavoenzymes (110)17
— and Vitale-Neugebauer, A.
Effect of barbiturates on the non-enzymatic oxidation of NADH catalyzed by flavins (110)32
—, see Vesco, C.
Givol, D.
—, Graven, G.R., Steers, E., Anfinsen, J. and Anfinsen, C.B.
Effect of limited digestion by proteolytic enzymes on Escherichia coli β-galactosidase (113)120

Gjone, E., see Norum, K.R.
Glansdorff, N.
— and Sand, G.
Coordination of enzyme synthesis in the arginine pathway of Escherichia coli K-12 (108)308
Glanvill, S., see Byrt, P.N.
Glaser, L.
Synthesis of teichoic acid. IV. On the regulation of CDP-glycerol concentration (101)6
—, Ionesco, H. and Schaeffer, P.
Teichoic acids as components of a specific phage receptor in Bacillus subtilis (124)415
Glasky, A.J., see Simon, L.N.
Glassman, E.
Complementation in vitro between non-allelic Drosophila mutants deficient in xanthine dehydrogenase. III. Observations on heat stabilities (117)342
—, see Hodge, L.D.; see Yen, T.T.T.
Glauser, E.M., see Glauser, S.C.
Glauser, S.C.
—, Wagner, Jr., H., Arbuckle, R. and Glauser, E.M.
An adjunct to the interpretation of peptide fingerprints (130)525
Glazko, A.J., see Chang, T.
Glende, Jr., E.A.
— and Cornatzer, W.E.
The phospholipid fatty acid composition of liver, kidney, heart and spleen mitochondria from rats of various age groups (125)310
Glenn, J.L., see Ulsamer, A.G.
Glick, D., see Hosoda, S.
Glick, R.E.
—, Mandelkern, L. and Stewart, W.E.
A nuclear magnetic resonance study and proteon exchange of poly-L-alanine (120)302
Glimcher, M.J.
—, Levine, P.T. and Mechanic, G.L.
Studies on the source of hydroxyproline in bovine enamel (136)36
—, Levine, P.T., Parsons, V. and Krane, S.M.
The content of organic phosphorus in the developing enamel of normal and rachitic rats (127)530
—, see Francois, C.J.; see Katz, E.P.; see Krane, S.M.; see Mechanic, G.L.
Glišin, V.R.
— and Doty, P.
The cross-linking of DNA ultraviolet radiation (142)314
Glisson, S.N., see Agrawal, H.C.
Gmelin, R.
— and Larsen, P.O.
L-γ-Ethylideneglutamic acid and L-γ-methyleneglutamic acid in seeds of Tetrapleura tetraptera (Schum. et Thonn) Taub. (Minosaceae) (136)572
Gnanam, A.
— and Kahn, J.S.
Biochemical studies on the induction of chloroplast development in Euglena gracilis. I. Nucleic acid metabolism during induction (142)475;
Biochemical studies on the induction of chloroplast development in Euglena gracilis. II. Protein synthesis during induction (142)486;
Biochemical studies on the induction of chloroplast development in Euglena gracilis. III. Ribosome metabolism associated with chloroplast development (142)493
Gödeken, O.G.R.
—, Sandrus, R. and Olavarría, J.M.
Metabolism of glycogen and maltosyl oligosaccharides (117)255
Godfrey, J.E., see Mihalyi, E.
Godin, C.
— and Dolan, G.
Tryptophan metabolism in normal and phenylketonuric rats (130)535
Godson, G.N.
— and Sinsheimer, R.L.
Lysis of Escherichia coli with a neutral detergent (149)476;
Use of brij lysis as a general method to prepare polyribosomes from Escherichia coli (149)489
Goebel, W., see Lingens, F.
Goedde, H.W.
—, Gehring, D. and Hofmann, R.A.
On the problem of a "Silent Gene" in pseudocholinesterase polymorphism (107)391
—, Hüfner, M., Möhlenbeck, F. and Blume, K.G.
Biochemical studies on branched-chain oxoacid oxidases (132)524
Goedheer, J.C.
Fluorescence action spectra of algae and bean leaves at room and at liquid nitrogen temperatures (102)73
— and Van der Tuin, A.K.
Decline of bacteriochlorophyll fluorescence induced by carotenoid absorption (143)399
—, see Terpstra, W.
Goertemiller, Jr., C.C., see Ernst, S.A.
Goffeau, A.
— et Bové, J.M.
Action des rayons γ sur les réactions de photophosphorylation (102)103
Goldberg, B., see Eiber, H.B
Goldberg, N.D.
—, Villar-Palasi, C., Sasko, H. and Larner, J.
Effects of insulin treatment on muscle 3',5'-cyclic adenylate levels in vivo and in vitro (148)665
Goldbloom, D.E.
— and Brown, W.D.
Turbidity correction for absorption spectra of colored solutions (112)584
Goldblum, N., see Grotto, L.
Goldman, D.
—, Schultz, S.G. and Epstein, W.
Repressive control of potassium transport in Escherichia coli (130)546
Goldman, M.B., see Winkler, M.H.
Goldschmidt, M.E., see Mukherjee, P.P.
Goldstein, B., see Silber, R.
Goldstein, B.N., see Volkenstein, M.V.
Goldstein, I.I., see Skulachev, V.P.
Goldstein, I.J.
— and Iyer, R.N.
Interaction of concanavalin A, a phytohemagglutinin, with model substrates (121)197
—, see Agrawal, B.B.L.
Goldstein, J.
Resistance of RNA to thermal denaturation in the presence of polyamines (123)620
Goldstein, M.
— and Anagnoste, B.

The conversion in vivo of D-amphetamine to (+)-p-hydroxynorephedrine (107)166
— and Joh, T.H.
The effect of hyperbaric oxygen on dopamine-β-hydroxylase activity (146)615
Goldstein, S.
— and Reddy, W.J.
Effect of insulin on the incorporation of [^{14}C]leucine into rat caudofemoralis protein (141)310
Goldwasser, E., see Dukes, P.P.; see Gallien-Lartique, O.; see Krantz, S.B.
Goldzieher, J.W., see Acevedo, H.F.
Golub, E.E.
—, Marble, S.J. and Meister, A.
Conversion of aminoacyl-sRNA derivatives to the corresponding amino alcohols (103)536
Gómez-Puyou, A., see Peña, A.
Gompertz, D.
— and Greenbaum, A.L.
Effects of thyroxine on the pattern of fatty acid synthesis in rat liver (116)441
Gonzales, E., see Bresnick, E.
González, A., see Bascur, L.
González, C., see Córdoba, F.
González S., C.
—, Sánchez O., J. and Concha B., J.
Changes in potential difference and short-circuit current produced by electrical stimulation in a nerve-skin preparation of toad (120)186
González S., G.
—, Sánchez O., J. and Concha B., J.
Further evidence for the release of noradrenalin under nerve stimulation and its effect on the potential difference in a toad nerve-skin preparation (135)167
Gonzalez, N.S., see Vozari Hampe, M.M.
Good, J.J., see Skipski, V.P.
Good, N.E., see Izawa, S.
Goodall, P.T., see Sick, K.
Goodgal, S.H., see Voll, M.J.
Goodman, DeW., see Quarfordt, S.H.; see Shiratori, T.
Goodman, I., see Salce, L.
Goodwin, T.W., see Threlfall, D.R.; see Williams, R.J.H.
Goore, M.Y.
— and Thompson, J.F.
γ-Glutamyl transpeptidase from kidney bean fruit. I. Purification and mechanism of action (132)15;
γ-Glutamyl transpeptidase of kidney bean fruit. II. Studies on the activating effect of sodium citrate (132)27
Gordon, A.H.
— and Hodgson, G.S.
Absence of increased [^{14}C]orotic acid uptake in perfused liver remnants (119)427
—, see Mutschler, L.E.
Gordon, E.E.
Influence of ouabain on metabolism of rat kidney (104)606;
Effect of K^+ and choline on metabolism of rat kidney slices (124)50
Gordon, J.
— and Myers, J.
Ribonucleases of the rat. III. Localization by immunofluorescence (113)187
Gordon, M.P., see Green, B.R.; see Sastry, K.S.; see Waskell, L.A.
Gorin, A.I.
—, Spitskovsky, D.M., Tikhonenko, T.I. and Tseytlin, P.I.
The secondary structure of DNA in phage particles (134)490
Gorin, E.
— and Shafrir, E.
Activation and inhibition of tri- and monoglyceride lipases in adipose tissue (137)189
Gorin, G., see Mamiya, G.
Gorodetsky, S.I., see Gurvich, A.E.
Gorski, J.
— and Morgan, M.S.
Estrogen effects on uterine metabolism: Reversal by inhibitors of protein synthesis (149)282
Gospodarowicz, D.
The effect of human chorionic gonadotropin and follicle-stimulating hormone on the incorporation of [1-^{14}C]acetate into steroids by the rabbit corpus luteum in vitro (107)363
Got, K.
—, Polya, G.M., Polya, J.B. and Cockerill, L.M.
Water-insoluble proteins from subfractions of sheep brain microsomes (135)225
Got, R.
—, Cheftel, R.I., Font, J. et Moretti, J.
Etude de l'α_1-macroglobuline du sérum de lapin. III. Biochimie de la copule glucidique (136)320
—, Mouray, H. et Moretti, J.
Etude biochimique de l'α_1-macroglobuline du sérum de lapin. I. Préparation et propriétés physico-chimiques (107)278
—, see Mouray, H.
Gots, J.S., see Adye, J.C.
Gottlieb, C.W.
—, Retief, F.P. and Herbert, V.
Blockade of vitamin B_{12}-binding sites in gastric juice, serum and saliva by analogues and derivatives of vitamin B_{12} and by antibody to intrinsic factor (141)560
Gotto, A.M., see Meikle, A.W.
Gottschalk, A., see Best, J.S.; see Bhargava, A.S.; see Carubelli, R.
Gottschling, H.
— und Zachau, H.G.
Ultraviolett-Inaktivierung der phenylalanin- und lysinspezifischen tRNA (103)418
Goudsmit, E.M.
— and Neufeld, E.F.
Isolation of guanosine 5'-diphosphate-L-galactose from the albumen gland of Helix pomatia (121)192
Gould, B.S.
— and Manner, G.
The action of hydrocortisone on collagen formation with special reference to its action on ribosomal aggregation (138)189
—, see Manner, G.
Gould, E.S.
— and Bassham, J.A.
Inhibitor studies on the photosynthetic carbon reduction cycle in Chlorella pyrenoidosa (102)9
Gould-Hurst, P.R.S., see Day, A.J.
Goulian, M.
— and Beck, W.S.

Goulian, M. (continued)
Storage of folate by Lactobacillus leichmannii (124)423;
Variations of intracellular deoxyribosyl compounds in deficiencies of vitamin B_{12}, folic acid and thymine (129)336
Gounaris, A.D.
—, Horton, H.R. and Koshland, Jr., D.E.
The phosphoglucomutase reaction: Investigation of enzyme dephosphorylation during its reaction with substrate (132)41
Govindjee, see Cederstrand, C.N.; see Cho, F.; see Das, M.; see Ghosh, A.K.; see Krey, A.; see Papageorgiou, G.
Grabar, P., see Escribano, M.J.
Grachev, M.A.
—, Budowsky, E.I., Mirzabekov, A.D., Krutilina, A.I. and Sandakhchiev, L.S.
A test for the "degeneracy" of valine-acceptor RNA (108)506
Grady, L.J.
— and Pollard, E.C.
DNA degradation by ionizing in Bacillus subtilis. Synergistic effect of actinomycin D (145)837
Graf, E.
— and Stein, Y.
Selective hydrolysis of rat-liver lecithin by phospholipase C (116)166
Graf, L., see Rapport, M.M.
Graff, G.L.A.
—, Hudson, A.J. and Strickland, K.P.
Biochemical changes in denervated skeletal muscle. I. The effect of denervation atrophy on the main phosphate fractions of the rat-gastrocnemius muscle (104)524;
Biochemical changes in denervated skeletal muscle. II. Labelling patterns of the main phosphate fractions in normal and denervated rat-gastrocnemius muscle using $^{32}P_i$ as indicator (104)532;
Biochemical changes in denervated skeletal muscle. III. The effect of denervation atrophy on the concentration and ^{32}P labelling of the individual phospholipids of the rat gastrocnemius (104)543
Graffe, M., see Thang, M.N.
Grafius, M.B.
— and Millar, D.B.
Reversible aggregation of acetylcholinesterase (110)540
Graham, S., see Freese, E.
Grajevskaja, R., see Bresler, S.
Gramling, E., see Niedermeier, W.
Granath, K.A., see Laurent, T.C.
Grantham, P.H.
—, Weisburger, E.K. and Weisburger, J.H.
Dehydroxylation and deacetylation of N-hydroxy-N-2-fluorenylacetamide by rat liver and brain homogenates (107)414
Gräsbeck, R.
—, Simons, K. and Sinkkonen, I.
Isolation of intrinsic factor and its probable degradation product, as their vitamin B_{12} complexes, from human gastric juice (127)47
Gratecos, D.
— et Rovery, M.
L'hydrolyse des liaisons de la leucine par diverses chymotrypsines (140)410
—, see Charles, M.; see Guy, O.
Graves, I.L., see Sokol, F.
Gray, C.T.
—, Wimpenny, J.W.T., Hughes, D.E. and Mossman, M.R.
Regulation of metabolism in facultative bacteria. I. Structural and functional changes in Escherichia coli associated with shifts between the aerobic and anaerobic states (117)22
—, Wimpenny, J.W.T. and Mossman, M.R.
Regulation of metabolism in facultative bacteria. II. Effects of aerobiosis, anaerobiosis and nutrition on the formation of Krebs cycle enzymes in Escherichia coli (117)33
Gray, E.D.
Studies on the adaptive formation of photosynthetic structures in Rhodopseudomonas spheroides. I. Synthesis of macromolecules (138)550
—, see Cost, H.B.; see Ferretti, J.J.
Gray, G.M.
Chromatography of lipids. I. An improved chromatographic procedure for the quantitative isolation of the neutral ceramide-containing glycolipids from mammalian tissues (144)511;
Chromatography of lipids. II. The quantitative isolation of the minor (acidic) phospholipids and of phosphatidylethanolamine from the lipid extracts of mammalian tissues (144)519;
—, see Gallai-Hatchard, J.J.; see Marinetti, G.V.
Gray, G.W.
— and Thurman, P.F.
A membrane fraction obtained by disintegration of cells of Pseudomonas aeruginosa (135)947
—, see Roberts, N.A.
Gray, M.W.
— and Lane, B.G.
Studies of the sequence of distribution of 2'-O-methyl ribose in yeast soluble ribonucleates (134)243
Gray, P.N.
— and Rachmeler, M.
The effect of 5-fluorouracil and 6-thioguanine incorporation on the amino acid acceptor activity of Escherichia coli tRNA (138)432
Graziosi, F., see Bibring, T.
Greaves, M.P.
—, Anderson, G. and Webley, D.M.
The hydrolysis of inositol phosphates by Aerobacter aerogenes (132)412
Greco, A.E., see Rushizky, G.W.
Green, B.R.
— and Gordon, M.P.
The satellite DNA's of some higher plants (145)378
Green, C., see Higgins, J.A.
Green, H., see Hamerman, D.
Greenbaum, A.L., see Gompertz, D.
Greenberg, D.M.
—, Tam, B.D., Jenny, E. and Payes, B.
Highly purified dihydrofolate reductase of calf thymus (122)423
—, see Yeh, Y-c.
Greenberg, J., see Terawaki, A.
Greenberger, N.J., see Hyams, D.E.
Greengard, P., see Märki, F.
Greenlees, A.W.

— and Symons, R.H.
The preparation of ^{32}P-labelled nucleoside 5'-monophosphates (119)241
Gregg, E.C., see Buckhold, B.
Gregory, D.W.
— and Williams, M.A.
The preparation of ferritin-labelled antibodies and other protein–protein conjugates with bis-diazotized benzidine (133)319
Gregory, K.F.
—, Ng, C.W. and Pantekoek, J.F.C.A.
Antibody to lactate dehydrogenase. I. Inhibition of glycolysis in tumor and liver homogenates (130)469
—, see Ng, C.W.
Greif, R., see Cartouzou, G.
Greiff, D., see Kelly, R.T.
Grenson, M.
Multiplicity of the amino acid permeases in Saccharomyces cerevisiae. II. Evidence for a specific lysine-transporting system (127)339
—, Mousset, M., Wiame, J.M. and Bechet, J.
Multiplicity of the amino acid permeases in Saccharomyces cerevisiae. I. Evidence for a specific arginine-transporting system (127)325
—, see Gits, J.J.
Grey, R.D., see Moog, F.
Gribble, T.J.
— and Schwartz, H.C.
Effect of protoporphyrin on hemoglobin synthesis (103)333
Griffin, B.E.
—, Haines, J.A. and Reese, C.B.
The methylation of adenylyl-(3'→5')-uridine and uridylyl-(3'→5')-adenosine with diazomethane (142)536
Griffin, M.J., see Agus, S.G.
Griffith, O.H.
— and Keana, J.F.W., Noall, D.L. and Ivey, J.L.
Nitroxide mixed carboxylic–carbonic acid anhydrides. A new class of versatile spin labels (148)583
Griffith, T.J.
— and Helleiner, C.W.
Partial purification of deoxynucleoside monophosphate kinases from L cells (108)114
Griffiths, D.E.
— and Roberton, A.M.
Energy-linked reactions in mitochondria. Studies on the reduction of NAD^+ by succinate (113)13;
Energy-linked reactions in mitochondria: Studies on the mechanism of the energy-linked transhydrogenase reaction (118)453
Griffiths, W.T., see Threlfall, D.R.
Grimison, A., see Daniels, M.
Grinspan, H.
—, Birnbaum, J. and Feitelson, J.
Environmental effects on the ultraviolet absorption spectrum of tyrosine (126)13
Grinstein, M., see Kreimer-Birnbaum, M.
Grisolia, S.
— and Tecson, J.
Mercury-induced reversible increase in 2,3-phosphoglycerate phosphatase and concomitant decrease in mutase activity of animal phosphoglycerate mutases (132)56
—, see Amelunxen, R.E.; see Bishop, S.H.; see Carr, D.O.; see Novoa, W.B.; see Tigier, H.
Griss, G.
—, Keck, J., Engelhorn, R. and Tuppy, H.
The isolation and purification of an ovarian polypeptide with uterine-relaxing activity (140)45
Grmela, M., see Trnavská, Z.
Grohlich, D., see Bezkorovainy, A.
Gromet-Elhanan, Z.
The relationship of cyclic and non-cyclic electron flow patterns with reduced indophenols to photophosphorylation (131)526
Gröndahl, N.J., see Iwanaga, S.
Groot, G.S.P., see Kemp, Jr., A.
Grooten, H.J.G., see Van der Horst, C.J.G.
Gros, C., see Villanueva, V.R.
Gros, F., see Naono, S.
Grosjean, H., see Wérenne, J.
Gross, E., see Schöberl, A.
Gross, J., see Haschemeyer, A.E.V.
Gross, N., see Sinclair, J.H.
Grossbach, U.
Acrylamide gel electrophoresis in capillary columns (107)180
Groszman, R.J., see Noir, B.A.
Grotto, L.
—, Moroz, C., De Vries, A. and Goldblum, N.
Isolation of Vipera palestinae hemorrhagin and distinction between its hemorrhagic and proteolytic activities (133)356
Groudinsky, O., see Labeyrie, F.; see Watari, H.
Groves, T.D.D.
— and Larson, B.L.
Preparation of specifically labeled milk proteins using bovine mammary cell cultures (104)462
Gruber, M., see Beintema, J.J.; see Bouma, J.M.W.; see Marrink, J.; see Mellema, J.E.; see Van Bruggen, E.F.J.; see Van Dalen, A.
Grünberger, D.
—, Holý, A. and Šorm, F.
The coding properties of some triribonucleoside diphosphates containing inosine (134)484;
The effect of some triribonucleoside diphosphates containing inosine on the binding of [^{14}C]aminoacyl-tRNA to ribosomes (149)246
—, Meissner, L., Holý, A. and Šorm, F.
The effect of polymers and trinucleoside diphosphates containing 8-azaguanine upon the binding of [^{14}C]valine-sRNA to ribosomes (119)432
—, O'Neal, C. and Nirenberg, M.
Stimulation of amino acid incorporation into protein by polyuridylic-8-azaguanylic acid (119)581
—. see Holý, A.; see Mirzabekov, A.D.
Grunberg-Manago, M.
—, Del Campillo-Campbell, A., Dondon, L. et Michelson, A.M.
Adénosine 5'-diphosphate sulfurylase de levure catalysant un échange entre l'orthophosphate et le phosphate terminal des nucléosides diphosphates (123)1
—, see Thang, M.N.
Grunicke, H.
—, Liersch, M., Hinz, M., Puschendorf, B., Richter, E. und Holzer, H.

Grunicke, H. (continued)
Die Bedeutung des Nikotinsäureamids für die Synthese des NAD in Ehrlich-Ascites-Tumorzellen (121)228
Gryboski, J.D., see Dahlqvist, A.
Gubler, C.J., see Ullrich, J.
Gudbjarnason, S.
Molecular structures and catalytic activity. I. Catalytic polarography of thiamine, oxythiamine and thiamine phosphates (148)22
Guerin, B.
— et Sulkowski, E.
Photoinhibition de l'adaptation respiratoire chez Saccharomyces cerevisiae. I. Variations de la sensibilité à l'inhibition (129)193
Guerra, F.
—, Péron, F.G. and McCarthy, J.L.
Further studies on corticosteroidogenesis. III. Effect of biological substrates and electron transport dependence in rat adrenal mitochondria (117)433
—, see Péron, F.G.
Guerra, R.M.
—, Melgar, E. and Villavicencio, M.
Alternative pathways of glucose metabolism in fetal rat brain (148)356
Guerritore, A., see Melani, F.
Guha, A.
— and Roels, O.A.
Influence of α-tocopherol on arylsulfatases A and B in the liver of vitamin A-deficient rats (111)364
Guha, S., see Maheshwari, S.C.
Guillory, R.J.
— and Slater, E.C.
Action of substituted guanidines on mitochondrial respiration and on the ADP–ATP exchange reaction (105)221
—, see Fisher, R.R.
Guinand, M.
— et Michel, G.
Structure d'un peptidolipide isolé de Nocardia asteroides, la peptidolipine NA (125)75
Guinand, S., see Jaquot-Armand, Y.
Gulyassy, P.F.
— and Edelman, I.S.
Hydrogen-ion dependence of the antidiuretic action of vasopressin, oxytocin and deamino-oxytocin (102)185
Gumucio, J.J., see Mueller, D.M.
Günalp, A., see Dubin, D.T.
Gunge, N., see Sugimura, T.
Günther, H.L.
— and Prusoff, W.H.
Protective effect of 6-azathymine and 6-azauracil against the lethal effect of ultraviolet irradiation. II. Isolation of thymine photoproducts from the nucleic acids of Streptococcus faecalis (142)304; Photosensitivity of 6-azathymine and its effect on the formation of photoproducts of thymine and cytosine (149)361
Gupta, N.K.
— and Robinson, W.G.
Coupled oxidation–reduction activity of liver alcohol dehydrogenase (118)431
Gupta, S., see Maheshwari, S.C.
Gurr, M.I.
—, Prottey, C. and Hawthorne, J.N.
The phospholipids of liver-cell fractions. II. Incorporation of [^{32}P]orthophosphate in vivo in normal and regenerating rat liver (106)357
Gurvich, A.E.
—, Gorodetsky, S.I. and Sidorova, E.V.
The interaction between nucleic acids, histones and other proteins in agarose (138)499
Gustafson, G.M., see Elatter, T.M.A.
Gustafsson, B.E., see Huovinen, J.A.
Guthrie, R.G., see Plechaty, M.
Gutman, A.
—, Autor, A.P. and Lynn, W.S.
Action of puromycin and actinomycin D on basal and insulin-stimulated glucose and fructose metabolism in isolated fat cells (130)19
Guttes, E.W.
—, Hanawalt, P.C. and Guttes, S.
Mitochondrial DNA synthesis and the mitotic cycle in Physarum polycephalum (142)181
Guttes, S., see Guttes, E.W.
Guttmann, S., see Waller, J.-P.
Guy, O.
—, Gratecos, D., Rovery, M. et Desnuelle, P.
Contribution à l'étude du chymotrypsinogène B de boeuf (115)404
—, Rovery, M. and Desnuelle, P.
Formation and activation of neochymotrypsinogen B (124)402

H

Haaf, A.S., see Wittenberger, C.L.
Haanen, C., see Schoenmakers, J.G.G.
Haarr, L.
mRNA and polysomes in the membrane fraction of T_2-phage-infected Escherichia coli (145)202
Habeeb, A.F.S.A.
Chemical evaluation of conformational differences in native and chemically modified proteins (115)440;
Evaluation of conformational changes in chemically modified bovine serum albumins on a column of Sephadex (121)21
Haber, E., see Richards, F.F.; see Stason, W.B.
Hacha, R.
— and Fredericq, E.
Purification and some enzymic properties of Staphylococcus aureus deoxyribonuclease (123)493
Hachimori, Y.
—, Kurihara, K., Horinishi, H. and Shibata, K.
States of amino acid residues in proteins. VIII. Tyrosine, histidine and tryptophan residues in chymotrypsin in the presence of substrate and in diisopropylphosphoryl chymotrypsin (105)167
—, Matsushima, A., Suzuki, M., Inada, Y. and Shibata, K.
States of amino acid residues in proteins. XI. Two types of tyrosine residues in trypsin related to the enzymatic activity (124)395
Hackenthal, E.
— und Hackenthal, R.
Die Netratreduktion durch zellfreie Extrakte aus Bacillus cereus (107)189
Hackenthal, R., see Hackenthal, E.
Hacker, B., see Coutsogeorgopoulos, C.
Hackett, D.P., see Click, R.E.
Hackett, Jr., P.
— and Hanawalt, P.
Selectivity for thymine over 5-bromouracil by a thymine-requiring bacterium (123)356
Hadjiolov, A.A.
Turnover and messenger activity of rat-liver RNA's (119)447
—, Venkov, P.V. and Dolapchiev, L.B.
Pattern of [^{32}P]orthophosphate incorporation in vitro into RNA nucleotides of Ehrlich ascites tumor cells (108)220
—, Venkov, P.V., Dolapchiev, L.B. and Genchev, D.D.
The action of snake venom phosphodiesterase on liver rRNA's (142)111
—, see Venkov, P.V.
Hadjivassiliou, A.
— and Brawerman, G.
Template and "DNA-like" RNA's as distinct entities in a preparation from rat liver (103)211
Hadley, L.D., see Yip, C.C.
Haenni, A.-L.
— and Chapeville, F.
The behaviour of acetylphenylalanyl-sRNA in polyphenylalanine synthesis (114)135
Haessler, I.E., see Rosenthal, H.L.
Haga, T.
—, Maruyama, K. and Noda, H.
The particle length of myosin B in solution (120)459
—, Yamamoto, M., Maruyama, K. and Noda, H.
The effect of myosin and calcium on the solubilization of F-actin from muscle mince (127)128
Hageman, E.C., see Schingoethe, J.
Hagen, U.
Betsimmung von Einzel- und Doppelbrüchen in bestrahlter DNA durch die Molekulargewichtsverteilung (134)45
—, see Kröger, H.
Hagenmaier, H., see Bayer, E.
Hager, L.P., see Wilson, J.E.
Haggerty, Jr., D.F., see Gerschenson, L.E.
Hagihara, B., see Kobayashi, S.
Hahn, F.E., see O'Brien, R.L.; see Olenick, J.G.
Hahn, G.A.
— and Brown, J.W.
Aminoacyl-tRNA synthetases from Sarcina lutea (146)259;
Properties of a methionyl-tRNA synthetase from Sarcina lutea (146)264
Haid, H., see Mann, J.D.
Haigh, W.G.
— and James, A.T.
The biosynthesis of an acetylenic acid, crepenynic acid (137)391
Haimovich, J.
Use of an immunoadsorbent for the isolation of anti-immunoglobin antibodies (147)394
Haine, A.C., see Fisher, R.F.
Haines, J.A.
— and Zamecnik, P.C.
Chemical modification of aminoacyl ligases and the effect on formation of aminoacyl-tRNA (146)227
—. see Griffin, B.E.
Hajduk, T., see Portela, A.
Hakala, M.T.
On the role of drug penetration in amethopterin resistance of Sarcoma-180 cells in vitro (102)198;
On the nature of permeability of Sarcoma-180 cells to amethopterin in vitro (102)210
Halaç, Jr., E.
— and Reff, A.
Studies on bilirubin UDP glucuronyltransferase (139)328
Hales, C.N., see Milner, R.D.G.
Hall, C.A.
— and Finkler, A.E.
A vitamin B_{12} binding protein in polycythemia vera plasma (147)186
Hall, C.W., see O'Brien, P.J.
Hall, D.O., see Horton, A.A.; see Kiewiet, D.Y.
Hall, M.O.
— and Straatsma, B.R.

Hall, M.O. (continued)
The synthesis of 3'-phosphoadenosine 5'-phosphosulfate by retinae and livers of normal and vitamin A-deficient rats (124)246
Hall, P.F., see Shikita, M.
Hall, T.C.
— and Cocking, E.C.
Amino acid incorporation into protein by aseptic cell-free systems from tomato cotyledons and leaves (123)163
Hallaway, B.E.
— and Benson, E.S.
Exchange between protein and water in the cryosublimation step of the Linderstrøm-Lang method of deuterium–hydrogen exchange analysis (107)154
Hallaway, M., see Bucke, C.
Hallinan, T.
— and Munro, H.N.
Protein synthesis and RNA turnover in rat liver microsome subfractions (108)285
Hallop, H., see Margna, U.
Halpern, Y.S.
Further studies of glutamate transport in Escherichia coli. Some features of the exit process (148)718
— and Even-Shoshan, A.
Further evidence for two distinct acetolactate synthetases in Aerobacter aerogenes (139)502
— and Lupo, M.
Effect of glucose and other carbon compounds on the transport of α-methylglucoside in Escherichia coli K12 (126)163
Halvorson, H.O., see Kobayashi, Y.
Hama, H.
—, Maruyama, K. and Noda, H.
Natural F-actin. I. Direct isolation of F-actin from myofibrils and its physicochemical properties (102)249;
Natural F-actin. II. Natural F-actin and its transformation to Straub F-actin (133)251
Hamada, M., see Hayakawa, T.
Hamberg, M.
— and Samuelsson, B.
Isolation and structure of a new prostaglandin from human seminal plasma (106)215
Hamburger, A.D., see Lapidot, Y.
Hamerman, D.
—, Todaro, G.J. and Green, H.
Production of hyaluronate by spontaneously established cell lines and viral transformed lines of fibroblastic origin (101)343
Hamilton, M.G.
The molecular weight of the 30-S RNA of Jensen sarcoma ribosomes as determined by equilibrium centrifugation (134)473
Hamilton, T.H.
—, Widnell, C.C. and Tata, J.R.
Sequential stimulations by oestrogen of nuclear RNA synthesis and DNA-dependent RNA polymerase activities in rat uterus (108)168
—, see Means, A.R.
Hamilton, W.A.
— and Sale, A.J.H.
Effects of high electric fields on microorganisms. II. Mechanism of action of the lethal effect (148)789
—, see Sale, A.J.H.
Hammel, J.M.
— and Zimmerman, L.N.
The dependence of proteinase biosynthesis on the cell wall in Streptococcus faecalis var. liquefaciens (129)613
Hammes, G.G.
— and Tancredi, J.F.
Thermodynamic parameters of the α-methyl aspartate–aspartate aminotransferase interaction (146)312
—, see Fasella, P.
Hampl, R., see Stárka, L.
Hampton, A.
— and Paterson, A.R.P.
Conversion of 6-chloropurine to its ribonucleotide by ascites tumor cells (114)185
Hampton, E.G.
Evaluation of the cell lines LM (TK^+) and LM (TK^-) of mouse fibroblasts for induction of thymidine kinase by RNA (145)541
Hanahan, D.J., see Barton, P.G.; see Mitchell, C.D.
Hanawalt, P.C., see Cerdá-Olmedo, E.; see Guttes, E.W.; see Hackett, Jr., P.; see Smith, D.W.
Handelman, E., see Terzuolo, C.A.
Handschack, W., see Lindigkeit, R.
Hanessian, S.
—, De Jongh, D.C. and McCloskey, J.A.
Further evidence on the structure of cordycepin (117)480
Hanking, B.M.
— and Roberts, S.
Stimulation of protein synthesis in vitro by elevated levels of amino acids (104)427
Hann, C.S.
Fibrinopeptides in one lizard and four bird species (124)398
Hano, K.
—, Koida, M., Yajima, H., Kubo, K. and Oshima, T.
Sodium hydroxide treatment of L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycine and its potentiated melanocyte-stimulating activity in vitro (115)337
Hansch, C.
— and Deutsch, E.W.
The structure–activity relationship in amides inhibiting photosynthesis (112)381;
The use of substituent constants in the study of structure–activity relationships in cholinesterase inhibitors (126)117
Hansen, H.J., see Frentz, G.D.
Hansen, R.G.
— and Henning, U.
Regulation of pyruvate dehydrogenase activity in Escherichia coli K12 (122)355
Hansen, R.P.
3,7,11,15-Tetramethylhexadecanoic acid: Its occurrence in the tissue of humans afflicted with Refsum's syndrome (106)304
—, Shorland, F.B. and Prior, I.A.M.
The fate of phytanic acid when administered to rats (116)178
Hanson, H., see Kleine, R.
Hanson, P., see Foster, R.
Hansson, E.
— and Jacobsson, S-O.
Uptake of [^{75}Se]selenomethionine in the

tissues of the mouse studied by whole body autoradiography (115)285
— and Samuelsson, B.
Autoradiographic distribution studies of tritium-labeled prostaglandins E_1, in mice. Prostaglandins and related factors 31 (106)379
Happold, F.C., see Bowen, T.J.
Harada, F., see Nishimura, S.
Harada, M., see Yagi, K.
Harada, Y.
—, Nozu, K. and Honjo, I.
Chromatographic studies on rapidly labeled RNA prepared from ultraviolet-irradiated Pseudomonas effusa (134)452
—, see Nozu, K.
Harary, I.
—, McCarl, R. and Farley, B.
Studies in vitro on single beating rat heart cells. IX. The restoration of beating by serum lipids and fatty acids (115)15
—, see Gerschenson, L.E.
Harashima, K., see Chino, H.
Harbury, H.A., see Vinogradov, S.N.
Hardy, R.W.F.
— and Knight, Jr., E.
Reductant-dependent ATPase of nitrogen-fixing extracts of Azotobacter vinelandii (122)520;
ATP-dependent reduction of azide and hydrogen cyanide by N_2-fixing of Azotobacter vinelandii and Clostridium pasteurianum (139)69
—, see Knight, Jr., E.
Harel, L., see Lacour, F.
Harland, W.A., see Brooks, C.J.W.
Harmison, C.R., see Roy, A.K.
Harmsen, B.J.M.
—, Van Dam, A.F. and Van Os, G.A.J.
Conformation of eye-lens proteins studied by means of optical rotatory dispersion (126)540
Harpring, L., see Churchich, J.E.
Harrington, H., see Jellum, E.
Harris, A.B.
Solvent pH salt concentration in rapid resolution of nucleic acid bases on cellulose layers (145)520
Harris, C.M., see Harris, T.M.
Harris, E.J., see Hempfling, W.P.
Harris, G.
— and MacWilliam, I.C.
Utilisation of certain derivatives of alanine and arginine by yeasts (119)416
Harris, M.
— and Suelter, C.H.
A simple chromatographic procedure for preparation of rabbit muscle myosin A free from AMP deaminase (133)393
Harris, P., see Harris, R.V.
Harris, P.L.
—, Diamantis, A.A. and Roberts, E.R.
Biological fixation of nitrogen. XII. The acetylation of hydrazine by Azotobacter vinelandii (111)11
— and Roberts, E.R.
Biological fixation of nitrogen. XIII. The competition between hydrazine and ammonia in Azotobacter vinelandii (111)15
Harris, R.V.
—, Harris, P. and James, A.T.
Fatty acid metabolism of Chlorella vulgaris (106)465
— and James, A.T.
Linoleic and α-linoleic acid biosynthesis in plant leaves and a green alga (106)456
Harris, T.M.
—, Harris, C.M. and Light, R.J.
The isolation of triacetic acid lactone from cultures of Penicillium patulum (121)420
Harrison, E.T.
— and Mage, M.G.
Isolation and characterization of sheep γ_1- and γ_2-immunoglobulins and their polypeptide chains (147)52
Hart, C.J., see Leslie, R.B.
Hart, L.I.
— and Bray, R.C.
Improved xanthine oxidase purification (146)611
Hartman, F.C.
— and Wold, F.
A new chemical synthesis of D-tartronic acid semialdehyde phosphate and D-glyceric acid 2-phosphate (141)445
Hartman, Jr., K.A.
The infrared spectra of some complexes of metal ions with nucleosides and nucleotides (138)192
Hartmann, G.
—, Honikel, K.O., Knüsel, F. and Nüesch, J.
The specific inhibition of the DNA-directed RNA synthesis by rifamycin (145)843
Hartmann, L., see Filitti-Wurmser, S.
Hartzell, Jr., R.W., see Rothblat, G.H.
Haruki, F.
— and Kirk, J.E.
A method for separation of chondroitin sulfate B from isomers A and C by paper electrophoresis with zinc sulfate or zinc acetate solution as electrolyte medium (136)391
Harwood, J.L., see Michell, R.H.
Haschemeyer, A.E.V.
— and Gross, J.
Isolation of liver polyribosomes in high yield (145)76
Hasegawa, S.
—, Fujimura, S., Shimizu, Y. and Sugimura, T.
The polymerization of ADP-ribose moiety of NAD by nuclear enzyme. II. Properties of the reaction product (149)369
—, see Fujimura, S.; see Sugimura, T.
Hashimoto, S., see Miyake, Y.
Hashimoto, T., see Toda, G.
Haskill, J.S.
— and Hunt, J.W.
Radiation damage to crystalline ribonuclease: An assay method for damage involved in refolding of reduced protein (105)333
Haslam, E.A.
—, Roscoe, D.H. and Tucker, R.G.
Inhibition of thymidylate synthetase in bacteriophage-infected Bacillus subtilis (134)312
Haslam, J.M.
Energy-linked reactions in mitochondria: Manometric errors in the determination of P/O ratios (105)184
Hassall, H.

Hassall, H. (continued)
— and Rabie, E.F.
The bacterial metabolism of imidazole-propionate (115)521
Hastings, J.R.B., see Parish, J.H.
Hatano, S.
— and Oosawa, F.
Isolation and characterization of plasmodium actin (127)488
—, Totsuka, T. and Oosawa, F.
Polymerization of plasmodium actin (140)109
Hati, R.N.
— and Datta, A.G.
Studies on the formation of diiodotyrosine from monoiodotyrosine by a microsomal enzyme from goat submaxillary gland (148)310
Hatz, C.
— and Leuthardt, F.
Isolation and characterization of fructo-sediphosphate aldolase from Pisum sativum (139)460
Haurowitz, F., see Knight, K.L.
Hauser, G.
—, Arnold, M. and Finelli, V.N.
The effect on the injection of 2-O, C-methylene myoinositol into rats on inositol metabolism in brain and kidney slices (116)125
—, see Dreyfus, P.M.; see Eichberg, J.
Hauser, H., see Dawson, R.M.C.
Hausmann, E.
Cofactor requirements for the enzymatic hydroxylation of lysine in polypeptide precursor of collagen (133)591
Havemann, R., see Hermel, H.
Haverkate, F.
— and Van Deenen, L.L.M.
Isolation and chemical characterization of phosphatidyl glycerol from spinach leaves (106)78
Hawkins, J., see Bueding, E.
Hawkins, R.A.
— and Heald, P.J.
Lipid metabolism and the laying hen. IV. The synthesis of triglycerides by slices of avian liver in vitro (116)41
Hawthorne, J.N., see Atherton, R.S.; see Coleman, R; see Galliard, T.; see Gurr, M.I.; see Michell, R.H.
Hawtrey, A.O.
— and Nourse, L.D.
Succinylation of rat-liver polysomes (114)413
—, Nourse, L.D. and King, H.W.S.
Binding of sRNA to rat-liver polysomes during protein synthesis (114)409
Haxby, J., see Kinsky, S.C.
Hay, A.J., see Levvy, G.A.; see Skehel, J.J.
Hayaishi, O., see Hirata, M.; see Mori, M.
Hayakawa, T.
—, Hirashima, M., Hamada, M. and Koike, M.
Effect of various bivalent cations and chelating agents on the oxidative decarboxylation of α-keto acids (128)574
Hayashi, A.
—, Shimizu, A., Suzuki, T. and Yamamura, Y.
The properties of hemoglobin M. Reactivity of methemoglobin M to cyanide, azide and fluoride (140)251
—, Shimizu, A., Yamamura, Y. and Watari, H.
Electron-spin resonance of haemoglobin M_{Iwate} and M_{Osaka} (102)626
—, Suzuki, T., Shimizu, A., Morimoto, H. and Watari, H.
Changes in EPR spectra of M-type abnormal haemoglobins induced by deoxygenation and their implications for the haem–haem interaction (147)407
—, see Shimizu, A.; see Suzuki, T.
Hayashi, H., see Tasaki, I.; see Udaka, K.; see Yoshinaga, M.
Hayashi, M.
—, Hayashi, M. and Unemoto, T.
The presence of D-malate dehydrogenase (D-malate:NAD oxidoreductase) in Serratia marcescens (122)374
— and Uchida, R.
Cation activated adenosinetriphosphatase in cell membranes of halophilic Vibrio parahaemolyticus (110)207
—, see Tonegawa, S.; see Unemoto, T.
Hayashi, T., see Forsheit, A.B.
Hayashi, Y.
—, Osawa, S. and Miura, K.
Methyl groups in rRNA from Escherichia coli (129)519
—, Ueda, K. and Hayashi, Y.
Some properties of ribosomes and RNA from the midguts of silkworm, Bombyx mori (119)84
Hayatsu, H.
—, Takeishi, K. and Ukita, T.
The modification of nucleosides and nucleotides. III. A selective modification of cytidine with semicarbazide (123)445
— and Ukita, T.
The modification of nucleosides and nucleotides. IV. The reaction of semicarbazide with nucleic acids (123)458
—, see Kikugawa, K.
Hayes, F.N., see Ratliff, R.L.; see Schwartz, A.W.
Hayman, S.
—, Lou, M.F., Merola, L.O. and Kinoshita, J.H.
Aldose reductase activity in the lens and other tissues (128)474
Heald, P.J.
— and Pohlman, D.
Amino acid incorporation by microsomal fractions from the liver of the domestic fowl (123)390
—, see Hawkins, R.A.
Healy, G.M.
— and Parker, R.C.
Selective nucleolar uptake of α_1-acid glycoprotein by mammalian cells in tissue culture (148)556
Heath, H., see Fiddick, R.; see Paterson, R.A.
Heath, M.J.
— and Brown, A.D.
Temperature and catabolite repression of β-galactosidase in Escherichia coli (145)195
Heber, U.W.
— and Santarius, K.A.
Compartmentation and reduction of pyridine nucleotides in relation to photosynthesis (109)390
—, see Santarius, K.A.
Heberlein, P.J.
— and Barnhart, M.I.

Multimolecular forms of profibrinolysin revealed by a zymogram technique (147)609
Hecker, E.
—, Walter, G. und Marks, F.
Zur Bildung wasserlöslicher Metaboliten aus Oestron in Rattenlebermikrosomen (111)546
—, see Marks, F.
Heddle, J.G., see Popp, R.A.
Hedegaard, J., see Le Gal, Y.
Hedeskov, C.J.
— and Esmann, V.
Major metabolic pathways of glucose in normal human lymphocytes and the effect of cortisol (148)372
—, Esmann, V. and Rosell Pérez, M.
Glycogen content and UDP-glucose—glucan glucosyltransferase activity of normal human lymphocytes (130)393
Hegarty, H.J., see Tedeschi, H.
Hegenhauer, J.C.
— and Nace, G.W.
Improved method for preparing agarose (111)334
Hegesh, E.
— and Avron, M.
The enzymatic reduction of ferrihemoglobin. I. The reduction of ferrihemoglobin in red blood cells and hemolysates (146)91;
The enzymatic reduction of ferrihemoglobin. II. Purification of a ferrihemoglobin reductase from human erythrocytes (146)397
Hegre, C.S.
— and Lane, M.D.
Structural requirements for substrate binding to propionyl-CoA carboxylase (128)172
Hegyi, G., see Mühlrad, A.
Heidelberger, C., see Reyes, P.
Heidrich, H.-G.
— and Schroeder, W.A.
A chromatographic investigation of reconstituted human hemoglobin (147)389
Heier, G., see Kleitke, B.
Heijlman, J.
— and Roukema, P.A.
Isolation of sialomucopeptides from human brain (127)269
Heilporn-Pohl, V.
— and Brachet, J.
Net DNA in anucleate fragments of Acetabularia mediterranea (119)429
—, Limbosch-Rolin, S. and Quertier, J.
The effect of mercaptoethanol on the methylation of RNA (134)191
Heimberg, M.
—, Dunkerley, A. and Brown, T.O.
Hepatic lipid metabolism in experimental diabetes. I. Release and uptake of triglycerides by perfused livers from normal and alloxan-diabetic rats (125)252
—, Van Harken, D.R. and Brown, T.O.
Hepatic lipid metabolism in experimental diabetes. II. Incorporation of [1-^{14}C]-palmitate into lipids of the liver and of the $d < 1.020$ perfusate lipoproteins (137)435
—, see Wilcox, H.G.
Hein, G.E., see Sanborn, B.M.
Heinegård, D.
— and Gardell, S.
Studies on protein—polysaccharide complex (proteoglycan) from human nucleus pulposus. I. Isolation and preliminary characterisation (148)164
—, see Antonopoulos, C.A.
Heinemann, M., see Sloane, N.H.
Heinz, E.
Acylgalaktosyldiglycerid aus Blatthomogenaten (144)321;
Uber die enzymatische Bildung von Acylgalaktosyldiglycerid (144)333
Helbock, H.J.
—, Forte, J.G. and Saltman, P.
The mechanism of calcium transport by rat intestine (126)81
— and Saltman, P.
The transport of iron by rat intestine (135)979
Heldt, H.W., see Pfaff, E.
Hele, P.
— and Barth, P.T.
Possible "allosteric" effects controlling the kinetic behavior of amino acid-dependent pyrophosphate exchange reactions (114)149
Hélène, C.
—, Douzou, P. and Michelson, A.M.
The phosphorescence of dinucleotides and the problem of energy transfer between the bases of nucleic acids (109)261
— et Michelson, A.M.
Etude de la luminescence à basse température des nucléotides et des dinucléotides (142)12
Helgeland, K.
— and Reistad, R.
An effect of actinomycin D in tissue culture cells: Altered DNA distribution after extraction with phenol or chloroform—butanol (145)214
Helgeland, L.
Incorporation of radioactive glucosamine into submicrosomal fractions isolated from rat liver (101)106
Helidova, O.D., see Girshovich, A.S.
Helle, K.
Antibody formation against soluble protein from bovine adrenal chromaffin granules (117)107
Helleiner, C.W., see Griffith, T.J.
Hellenga, L., see Downing, M.
Helmkamp, G.K.
— and Kondo, N.S.
Preferred orientations in purine stacking (145)27
Helmsing, P.J.
Hydrolysis of galactolipids by enzymes in spinach leaves (144)470
Hémon, P.
L'activité α-glycerophosphate oxydase du foie de rat au cours du développement (132)175
Hempel, K.
— and Männl, H.F.K.
The conversion of [^{3}H]tyrosine to [^{3}H]DOPA in mouse melanoma in vivo (124)192
Hempfling, W.P.
—, Höfer, M., Harris, E.J. and Pressman, B.C.
Correlation between changes in metabolite concentrations and rate of ion transport following glucose addition to Escherichia

Hempfling, W.P. (continued)
coli B (141)391
Hempling, H.G.
Sources of energy for the transport of potassium and sodium across the membrane of the Ehrlich mouse ascites tumor cell (112)503;
Analog program for the Widdas model of sugar transport (135)355
—, see Levinson, C.
Hendelman, L.U., see Mueller, D.M.
Henderickx, H.K., see Demeyer, D.I.
Hendler, R.W.
Uptake of nucleic acid, protein and carbohydrate precursors by hen-oviduct lipids (106)184
Hendler, S.
— and Srinivasan, P.R.
An intermediate in the conversion of chorismate to p-aminobenzoate (141)656
Hendrix, T.R., see Rosensweig, N.S.
Henion, W.F.
—, Sutherland, E.W. and Posternak, Th.
Effects of derivatives of adenosine 3',5'-phosphate on liver slices and intact animals (148)106
Henley, K.S., see Mueller, D.M.
Henneman, P.H., see Saxena, B.B.
Henning, U., see Hansen, R.G.
Henninger, M.D.
—, Magree, L. and Crane, F.L.
Distribution of plastoquinones in fractionated chloroplasts (131)119
Henretig, R., see Bielski, B.H.J.
Henricson, B., see Augustinsson, K.B.
Henriksen, R.A., see Shields, J.E.
Henriques, S.B., see Mandelbaum, F.R.
Henschen, A., see Iwanaga, S.
Henson, G., see Raison, J.K.
Herbert, V., see Gottlieb, C.W.
Heredia, C.F., see Ayuso, M.S.
Heremans, J.F., see Masson, P.L.; see Vandebroek, G.
Heritier-Watkins, O., see Danishefsky, I.
Herman, R., see Masui, T.; see Zakim, D.
Herman, R.H., see Zakim, D.
Herman, R.K.
— and Pardee, A.B.
On the stability of mRNA in a polar mutant (108)513
Hermann, J., see Jollès, J.
Hermel, H.
— and Havemann, R.
Uber den Mechanismus der Katalase–H_2O_2-Reaktion. I. Der Disulfid- und Sulfhydrylgehalt der Rinderleberkatalase (128)272;
Uber den Mechanismus der Katalase–H_2O_2-Reaktion. II. Die Aktivitätszentren der Katalase und ihre Wirkungsweise (128)283
Herner, A.E., see Fischer, D.J.
Herrera, M.G.
—, Philipps, G.R. and Renold, A.E.
Stimulation of metabolic activity of adipose tissue from fasted rats by prolonged incubation in vitro. I. Requirement for glucose and insulin (106)221
—, see Philipps, G.R.
Herries, D.G.
The simultaneous estimation of orthophosphate and carbamoyl phosphate and application to the aspartate transcarbamylase reaction (136)95
Herring, G.M., see Andrews, A.T. deB.
Herrmann, R.L.
—, Lou, M.F. and White, C.W.
Inhibition of ornithine carbamoyltransferase and the pyrimidine precursor role of L-α-aminobutyrate and propionate in Neurospora (121)79
— and White, C.W.
β-Alanine inhibition in Neurospora and its reversal by carbamoyl compounds (124)233
—, see Lou, M.F.
Hersh, R.T.
— and Benedict, A.A.
Aggregation of chicken γG immunoglobulin in 1.5 M NaCl solution (115)242
—, see Curry, J.B.
Hershko, A.
—, Razin, A., Shoshani, T. and Mager, J.
Turnover of purine nucleotides in rabbit erythrocytes. II. Studies in vitro (149)59
—, see Mager, J.
Hertogs, M.
— and Wessels, J.S.C.
Ferredoxin-stimulated photoreduction of 2,4-dinitrophenol with solubilized chlorophyll a (109)610
Hervé, B., see Rossignol, B.
Herz, R., see Weber, A.
Herzog, A., see Bollen, A.
Hess, G.P., see Swinehart, J.W.
Hessel, B., see Blombäck, B.
Hewitt, R., see Billen, D.
Hewlett, M.J., see Sobel, H.
Hey, A.E., see Hnilica, L.S.
Heyman, T.
—, Seror, S., Desseaux, B. and Legault-Démare, J.
Valine tRNA. I. Chromatographic study of valine tRNA modifications during Bacillus subtilis growth (145)596
Heywood, S.M.
The regulation of amino acid incorporation into thyroid protein: Evidence that thyroxine and iodide inhibit protein synthesis at a ribosomal site (123)188
Hibbitt, K.G.
Some factors involved in the control of fatty acid synthesis in the lactating bovine mammary gland (116)56
Hicks, S.E.
—, Gibson, D.M. and Allman, D.W.
Inhibition of hyperlipogenesis with puromycin or actinomycin (106)441
Hidaka, H., see Nagatsu, T.
Hidaka, K., see Shigesada, K.
Higashi, K.
— and Busch, H.
Preservation of rapidly synthesized RNA of high molecular weight in frozen nuclei of rat liver (103)339;
Stability of nucleolar 45-S RNA (138)76
Higashino, K.
— and Lieberman, I.
Lysine catabolism by liver partial hepatectomy (111)346
Higgins, J.A.
— and Green, C.
Properties of a lipase of rat-liver

parenchymal cells (144)211
—, see Brady, M.
Highet, R.J., see Avigan, J.
Highkin, H.R., see Boardman, N.K.
Hignett, R.C.
Interference of 5-fluorouracil in the biosynthesis of ribosomes in Staphylococcus aureus (strain Duncan) (114)559
Hilberg, C., see Skou, J.C.
Hilf, R.
—, Michel, I., Gibbs, C.C. and Bell, C.
NADP-linked enzymes and lipids in normal and neoplastic mammary tissue: Effects of estrogen and dietary glucose (116)589
Hill, A.E.
Ion and water transport in Limonium. I. Active transport by the leaf gland cells (135)454;
Ion and water transport in Limonium. II. Short-circuit analysis (135)461
Hill, C.H., see Starcher, B.
Hill, D.L.
— and Chambers, P.
The biosynthesis of proline by Tetrahymena pyriformis (148)435
Hill, H.A.O., see Das, P.K.
Hill, J.L., see Nilsson, A.
Hill, R., see Walker, D.A.
Hill, R.C., see Rosenthal, H.L.
Hill, R.D.
— and Laing, R.R.
Specific reaction of dansyl chloride with one lysine residue in rennin (132)188
Hill, R.J., see Armstrong, C.E.; see Mackinlay, A.G.
Hill, R.M., see Gardiner, W.L.
Hiller, R.G.
— and Bassham, J.A.
Inhibition of CO_2 fixation by nitrous acid (109)607
Hilliard, J., see Civen, M.
Hilvers, A.G.
—, Weenen, J.H.M. and Van Dam, K.
The side activities of D-glyceraldehyde-3-phosphate:NAD^+ oxidoreductase (phosphorylating) from rabbit muscle: NADH–X formation (128)74
Himwich, W.A., see Agrawal, H.C.
Hincenbergs, I., see Williams, M.A.
Hind, G., see Izawa, S.
Hinks, M.
— and Masters, C.J.
The ontogenetic variformity of lactate dehydrogenase in feline and cavian tissues (130)458
—, see Masters, C.J.
Hinton, R.H., see El-Aasser, A.A.
Hinz, M., see Grunicke, H.
Hiraga, S.
—, Igarashi, K. and Yura, T.
A deoxythymidine kinase-deficient mutant of Escherichia coli. I. Isolation and some properties (145)41
— and Sugino, Y.
Nucleoside monophosphokinases of Escherichia coli infected and uninfected with a RNA phage (114)416
Hirashima, A.
—, Asano, K. and Tsugita, A.
A cell-free protein-synthesizing system from Bacillus subtilis (134)165
—, see Hayakawa, T.
Hirata, M.
— and Hayaishi, O.
Adenyl cyclase of Brevibacterium liquefaciens (149)1
Hirata, Y.
—, Kawachi, T. and Sugimura, T.
Fatty liver induced by injection of L-tryptophan (144)233
Hirato, K., see Wada, F.
Hiroms, J.M., see Williams, V.R.
Hirooka, T.
— and Galambos, J.T.
Selenium metabolism. I. Respiratory excretion (130)313;
Selenium metabolism. III. Serum proteins, lipoproteins and liver injury (130)321
Hirsch, C.A.
Nucleotide composition of 28-S and 18-S rRNA from several rat and rabbit tissues (123)246
Hirsch, D., see Yu, C.-T.
Hirschberg, E., see Weinstein, I.B.
Hirschfield, I.N.
— and Koritz, S.B.
Stimulation of pregnenolone synthesis in the large particles from the adrenals of rats administered adrenocorticotropin in vivo (111)313
Hirschowitz, B.I., see Sachs, G.
Hirshfeld, H., see David, S.
Hirth, L., see Ebel, J-P.
Hirvonen, A.P., see Price, C.A.
Hisatsune, K.
—, DeCourcy, Jr., S.J. and Mudd, S.
An immunological active cell-wall peptide polymer obtained from the culture filtrates of Staphylococcus aureus (121)210
Hitchcock, C.
— and James, A.T.
Mechanism of α-oxidation in leaves (116)413
Hizukuri, S., see Takeda, Y.
Hjertquist, S.-O., see Antonopoulos, C.A.
Hlavackova, V., see Boucek, R.J.
Hnilica, L.S.
Nuclear proteins. I. Observations on the tissue and species specificity of the moderately lysine-rich histone fraction 2b (117)163
—, Edwards, L.J. and Hey, A.E.
Studies on nuclear proteins. II. Quantitative distribution of histone fractions in various tissues (124)109
—, see Jirgensons, B.
Ho, P.L., see Hopper, D.K.
Ho, P.P.K.
— and Jones, L.
Enzymatic preparation of the L(+)-diastereoisomer of [methenyl-^{14}C]N^5, N^{10}-methenyltetrahydrofolic acid (148)622
Ho, R.J.
— and Jeanrenaud, B.
Insulin-like action of ouabain. I. Effect on carbohydrate metabolism (144)61
—, Jeanrenaud, B., Posternak, Th. and Renold, A.E.
Insulin-like action of ouabain. II. Primary antilipolytic effect through inhibition of adenyl cyclase (144)74

Ho, T.Y.
The amino acids of bone and dentine collagens in pleistocene mammals (133)568
Hoare, D.S.
Photoassimilation of organic compounds by autotrophic blue-green algae (109)622
—, see Quadri, S.M.H.; see Sykes, J.
Hoberman, H.D.
— and Prosky, L.
Evidence of reduction of fumarate to succinate in perfused rat liver under conditions of reduced O_2 tension (148)392
—, see Lee, C-p.
Hobson, G.E.
—, Lance, C., Young, R.E. and Biale, J.B.
Metabolic processes in cytoplasmic particles of the avocado fruit.
VIII. Particles from different regions of the fruit (113)605
Hobson, J.D.
— and Laris, P.C.
Phospholipid–sugar complexes in human and beef erythrocyte membranes (125)403
Hochberg, A.
— and Dimant, E.
Labeling in vitro of glutathione of human blood cells (104)53
—, see Niv, J.
Hochmannová, J., see Doskočil, J.
Hochstein, L.I.
— and Dalton, B.P.
The purification and properties of nicotine oxidase (139)56
Hochstein, P., see Wittles, B.
Hodge, L.D.
— and Glassman, E.
Purine catabolism in Drosophila melanogaster. I. Reactions leading to xanthine dehydrogenase (149)335
Hodgkins, B., see Smith, K.C.
Hodgson, G.S., see Gordon, A.H.
Hodnett, J.L., see Muramatsu, M.
Hoefele, O., see Buddecke, E.
Hoekstra, W.H., see Sink, J.D.
Hoenders, H.J.
— and Bloemendal, H.
The N-terminus of the lens protein α-crystallin (147)183
Hof, H., see Mizuno, N.S.
Höfer, M., see Hempfling, W.P.; see Kotyk, A.
Hoffmann, S.E.M., see Rudner, R.
Hofmann, E., see Augustin, H.W.
Hofmann, R.A., see Goedde, H.W.
Hofsten, B.V.
— and Reinhammar, B.
An extracellular proteolytic enzyme from a strain of Arthrobacter. III. Stability and substrate specificity (110)599
— and Tjeder, C.
An extracellular proteolytic enzyme from a strain of Arthrobacter. I. Formation of the enzyme and isolation of mutant strains without proteolytic activity (110)576
—, Van Kley, H. and Eaker, D.L.
An extracellular proteolytic enzyme from a strain of Arthrobacter. II. Purification and chemical properties of the enzyme (110)585
Hoggan, M.D., see Metzger, J.F.
Hogsander, U., see Jirku, H.
Hohl, M.C., see Duane, Sr., W.C.
Hohn, Th.
— and Schaller, H.
Separation and chain-length determination of polynucleotides by gel filtration (138)466
Hokin, L.E.
Effects of calcium omission on acetylcholine-stimulated amylase secretion and phospholipid synthesis in pigeon pancreas slices (115)219
—, Yoda, A. and Sandhu, R.
Irreversible inhibition of ATPases, diglyceride kinase and phosvitin kinase of brain diisopropylfluorophosphate (126)100
Holazo, A.A., see Stenesh, J.
Holden, J.T.
Restoration of normal glutamic acid transport in vitamin B_6-deficient Lactobacillus plantarum by acetate, ammonium, and vitamin B_6 (104)121
— and Utech, N.M.
Actinomycin D inhibition of amino acid transport in Streptococcus faecalis (135)351; Effect of biotin, pantothenic acid and nicotinic acid deficiences on amino acid transport in Lactobacillus plantarum (135)517
Holdsworth, E.S., see Bubela, B.
Holeyšovský, V., see Mikeš, O.
Holford, R.M., see Cleaver, J.E.
Holladay, D.R., see Pfuderer, P.
Hollenberg, C.H., see Roncari, D.A.K.
Hollenberg, P.F., see Wheeler, K.P.
Holler, B.W., see Zimmerman, E.F.
Holley, R.W.
Evidence that a rat liver "inhibitor" of the synthesis of DNA in cultured mammalian cells is arginase (145)525
—, see Madison, J.T.; see Nelson, J.A.
Hollifield, J.W., see Parkins, F.M.
Hollinshead, J.A., see Barker, G.R.
Holloway, C., see Kirshner, N.
Holm, B.
Stability of DNA in synchronized cultures of Tetrahymena pyriformis GL (119)647
Holm, H.
—, Frøholm, L.O. and Laland, S.
Isolation of a peptide conjugate with the sequence Phe–Pro–Val–Orn from a cell-free system producing gramicidin S (115)361
Holman, R.T., see Selinger, Z.
Holmberg, E., see Blombäck, B.
Holmes, L.G., see Kronman, M.J.; see Robbins, F.M.
Holmes, R.
Discontinuous acrylamide-gel plate electrophoresis (133)174
Holmes, R.S.
— and Masters, C.J.
The developmental multiplicity and isoenzyme status of cavian esterases (132)379; The developmental multiplicity and isoenzyme status of rat esterases (146)138
Holmlund, C.E., see Kuo, J.F.
Holowach, J.
—, Howe, M.C., Laatsch, R.H. and McDougal, Jr., D.B.
Effects of various anions and cations on the release of four dehydrogenases from brain mitochondria by a non-ionic detergent (118)230

Holten, R.W.
— and Myers, J.
Water-soluble cytochromes from a blue-green alga. I. Extraction, purification, and spectral properties of cytochromes C (131)362;
Water-soluble cytochromes from a blue-green alga. II. Physicochemical properties and quantitative relationships of cytochromes C (549, 552, and 554 Anacystis nidulans) (131)375
Holý, A.
—, Grünberger, D., Smrt, J. and Šorm, F.
Synthesis of a GpUpU analogue containing 5'-deoxyuridine 5'-phosphonic acid and its effect upon binding of [^{14}C]valyl- and [^{14}C]-alanyl-tRNA to ribosomes (138)207
— und Scheit, K.-H.
Die Methylierung von Dinucleosidphosphaten mit Diazomethan (138)230
—, see Grünberger, D.; see Mirzabekov, A.D.; see Scheit, K.-H.
Holz, Jr., G.G., see Erwin, J.A.
Holzapfel, W., see Kandler, O.
Holzer, H., see Bernhardt, W.; see Grunicke, H.; see Mecke, D.; see Panten, K.; see Witt, I.
Holzer, M.E.
—, Johnson, K.D. and Smith, R.A.
Metabolism of phosphoramidates. III. A microsomal phosphoramidate hexose transfer system (122)232
Honig, G.R.
—, Smulson, M.E. and Rabinovitz, M.
A requirement of RNA synthesis for oxidation-dependent biosynthesis in sarcoma 37 ascites tumor cells (129)576
Honikel, K.O., see Hartmann, G.
Honjo, I., see Harada, Y.; see Nozu, K.
Honjo, K., see Takeda, J.
Hoober, J.K.
— and Cohen, S.
Epidermal growth factor. I. The stimulation of protein and RNA synthesis in chick embryo epidermis (138)347;
Epidermal growth factor. II. Increased activity of ribosomes from chick embryo epidermis for cell-free protein synthesis (138)357
Hood, W.
— and Carr, N.G.
A single glyceraldehyde-3-phosphate dehydrogenase active with NAD and NADP in Anabaena variabilis (146)309
Hopper, D.K.
—, Ho, P.L. and Furth, J.J.
Detection of RNA and DNA polymerase in animal tissues by ammonium sulfate fractionation of cell-free extracts (118)648
Hopps, V., see Mutolo, V.
Hopsu, V.K., see Riekkinen, P.J.
Hörhold, C., see Schubert, K.
Hori, K.
— and Cormier, M.J.
Studies on the bioluminescence of Renilla reniformis. V. Absorption and fluorescence characteristics of chromatographically pure luciferin (102)386;
Studies on the bioluminescence of Renilla reniformis. VI. Some chemical properties and the partial tentative structure of luciferin (130)420
Horikoshi, K.
— and Ikeda, Y.
Spore coats of Aspergillus oryzae. II. Conidia coat-bound β-glucosidase (101)352
Horinishi, H., see Hachimori, Y.
Horio, T., see Chance, B.; see Yamashita, J.
Horiuchi, T.
— and Novick, A.
Studies of a thermolabile repressor (108)687
—, see Natori, S.
Horland, A.A., see Seidman, I.
Horn, L., see Brooks, S.C.
Horning, E.C., see Gardiner, W.L.; see Horning, M.G.; see Jaakonmaki, P.I.
Horning, M.G.
—, Moss, A.M. and Horning, E.C.
A new method for the separation of catecholamines by gas–liquid chromatography (148)597
Horowitz, J.
— and Kohlmeier, V.
Formation of active β-galactosidase by Escherichia coli treated with 5-fluorouracil (142)208
Horowitz, N.H., see Urey, J.C.
Horrocks, L.A.
— and Ansell, G.B.
Studies on the phospholipids of rat brain which contain glyceryl ethers (137)90
Horton, A.A.
— and Hall, D.O.
2-Amino-1,1,3-tricyanopropene: A new inhibitor of oxygen evolution in photosynthesis (131)201
Horton, H.R., see Gounaris, A.D.
Horvat, A.
— and Touster, O.
Biochemical characterization of the lysosomes of Ehrlich ascites in tumor cells (148)725
Horvat, D., see Škreb, Y.
Horwitz, J.P., see Brooks, S.C.
Hosaka, Y.
Criterion for evaluating the number of capsomeres of icosahedral capsids (104)261
Hoshika, A., see Muraoka, S.
Hosoda, J., see Kadowaki, K.
Hosoda, S.
— and Glick, D.
Biosynthesis of 5-hydroxytryptophan and 5-hydroxytryptamine from tryptophan by neoplastic mouse mast cells (111)67
Hosokawa, K., see Inoue, H.
Hosoya, H., see Sakurai, T.
Hotta, K., see Bezkorovainy, A.
Hough, L., see Clamp, J.R.
Houssais, J.F.
Transformations moléculaires au niveau des isozymes de la lactico déhydrogenase de la souris, mises en évidence par électrophorèse en gel d'amidon (128)239
Houssier, C.
— and Fredericq, E.
Electrooptical properties of nucleic acids and nucleoproteins. I. Study of the gel-forming deoxyribonucleohistone (120)113;
Electrooptical properties of nucleic acids and nucleoproteins. II. Study of the

Houssier, C. (continued)
deoxyribonucleohistone–proflavine complexes (120)434;
Iodination of deoxyribonucleohistone: Spectroscopic study and electric dichroism data (138)424
Houtsmuller, U.M.T.
– and Van Deenen, L.L.M.
On amino acid esters of phosphatidyl glycerol from bacteria (106)564
–, see Op den Kamp, J.A.F.
Howanitz, P.J.
– and Levy, H.R.
Acetyl-CoA carboxylase and citrate cleavage enzyme in the rat mammary gland (106)429
Howard, B.
–, Williams, H.E. and Smith, Jr., L.H.
Absence of tartronic acid in human urine (148)803
Howard, Jr., C.F.
– and Portman, O.W.
Hydrolysis of cholesteryl linoleate by a high-speed supernatant preparation of rat and monkey aorta (125)523
Howard, S.M.
– and Mehl, J.W.
Product activation of the tryptic hydrolysis of p-toluenesulfonylarginine methyl ester (105)594
Howe, C., see Danon, D.
Howe, D.N., see Campbell, B.J.
Howe, J.F., see Rahman, Y.E.
Howe, M.C., see Holowach, J.
Howell, S.L.
– and Taylor, K.W.
Effects of glucose concentration on incorporation of [^{3}H]leucine into insulin using isolated mammalian islets of Langerhans (130)519
Howes, W.V.
Protein synthesis in Escherichia coli A: Phage mediated interruption of translation (103)711
Howland, J.L.
Inhibition of mitochondrial succinate oxidation by alkylhydroxynaphthoquinones (105)205;
Influence of alkylhydroxynaphthoquinones on the mitochondrial oxidation of tetramethyl-p-phenylenediamine (131)247
–, see Brown, C.B.; see Krogstad, D.J.
Hoyes, S.D.
– and Saunders, L.
The dispersion of some steroids in lecithin sols (116)184
Hoyle, R.J., see Brockerhoff, H.
Hrazdina, G.
– and Neukom, H.
Isolation of a xylanase from a commercial cellulase preparation (128)402
Hrkal, Z.
– and Vodrážka, Z.
A study of the conformation of human globin in solution by optical methods (133)527
Hsia, D.Y.Y.
The development of intestinal β-galactosidase and β-glucuronidase in the newborn (122)550
–, Makler, M., Semenza, G. and Prader, A.
β-Galactosidase activity in human intestinal lactases (113)390
Hsu, L.
– and Tappel, A.L.
Lysosomal enzymes and mucopolysaccharides in the gastro-intestinal tract of the rat and pig (101)83;
Effect of vitamin A on the activity of arylsulfatase and β-glucuronidase of rat tissues (101)113
Hsu, R.Y., see Yang, P.C.
Hsu, W.P.
– and Miller, G.W.
Iron in relation to chlorophyll and porphyrins (111)393
Huang, M.
–, Biggs, D.R., Clark-Walker, G.D. and Linnane, A.W.
Chloramphenicol inhibition of the formation of particulate mitochondrial enzymes of Saccharomyces cerevisiae (114)434
Huang, S.C., see MacLeod, R.M.
Huart, R., see Ledoux, L.
Hubby, J.L., see Narise, S.
Huber, R.E.
– and Criddle, R.S.
The isolation and properties of β-galactosidase from Escherichia coli grown on sodium selenate (141)587
–, Segel, I.H. and Criddle, R.S.
Growth in Escherichia coli on selenate (141)573
Hübscher, G., see Brindley, D.N.; see Sedgwick, B.
Hudnik-Plevnik, T.A.
Effect of X-irradiation on pulse-labelling of RNA in Salmonella typhimurium (103)515
Hudson, A.J., see Graff, G.L.A.
Huebner, F.R., see Woychik, J.H.
Huet, J., see Vignais, P.V.
Huez, A., see Lebleu, B.
Huez, G.
–, Burny, A., Marbaix, G. and Lebleu, B.
Release of mRNA from rabbit reticulocyte polyribosomes at low concentration of divalent cations (145)629
–, see Bollen, A.; see Marbaix, G.
Hüfner, M., see Goedde, H.W.
Huggett, A.St.G., see Britton, H.G.
Hughes, D.E., see Cole, H.A.; see Gray, C.T.
Huijing, F.
Phosphorylase kinase in leucocytes of normal subjects and of patients with glycogen-storage disease (148)601
Huisman, T.H.J., see Dobbs, Jr., N.B.; see Labie, D.; see Reynolds, C.A.
Hülsmann, W.C.
On the synthesis of malonyl-CoA in rabbit-heart sarcosomes (125)398
Hultin, T.
Factors influencing the puromycin-induced release of protein from liver ribosomes (123)561
– and Östner, U.
Selective degradation of ribosomal proteins by proteolytic enzymes (147)178
–, see Parthier, B.
Humbel, R.E., see Bürgi, H.
Hunt, J.W., see Haskill, J.S.
Hunt, S.

— and Jevons, F.R.
Polysaccharide sulphate–peptide complex in the hypobranchial mucin of Buccinum undatum L. (101)214
Hunt, S.V., see Decker, K.
Hunter, F.R.
Facilitated diffusion in the chloride shift in human erythrocytes (135)784
Huovinen, J.A.
— and Gustafsson, B.E.
Inorganic sulphate, sulphite and sulphide as sulphur donors in biosynthesis of sulphur amino acids in germ-free and conventional rats (136)441
Huppert, J.
— and Semmel, M.
Suppression de l'activité ribonucléasique par la pronase (108)501
—, see Semmel, M.
Hurley, L.S.
— and Volkert, N.E.
Pantothenic acid and CoA in the developing guinea-pig liver (104)372
Hurst, A., see Bennett, R.
Hurwitz, C.
— and Rosano, C.L.
Measurement of rates of transcription and translation by means of proflavine or borate (108)697
—, see Rosano, C.L.
Hurwitz, E.
—, Fuchs, S. and Sela, M.
Role of charge in antigen–antibody precipitin reactions (111)512
—, see Ungar-Waron, H.
Hurych, J.
— and Chvapil, M.
Role of free hydroxyproline in the biosynthesis of collagen (107)91
— and Nordwig, A.
Inhibition of collagen hydroxylysine formation by chelating agents (140)168
—, see Chvapil, M.
Husebey, R.M.
— and Murray, M.
Molecular structure of fibrinogen.
I. Helical content and the role of tyrosine moiety in the fibrinogen molecule (133)243
Huskisson, N.S., see Ward, P.F.V.
Hutchinson, F., see Köhnlein, W.; see Ray, D.K.
Hitchison, W.C., see Imrie, R.C.
Hutterer, F.
Degradation of mucopolysaccharides by hepatic lysosomes (115)312
Hutton, H.R.B.
— and Boyd, G.S.
The metabolism of cholest-5-en-3,7-diol by rat-liver cell fractions (116)336;
The metabolism of cholest-4-en-3-one-7-ol by rat-liver cell fractions (116)362
Hutzinger, O.
— and Kosuge, T.
Microbial synthesis and degradation of indole-3-acetic acid. II. The source of oxygen in the conversion of L-tryptophan to indole-3-acetamide (136)389
Hvatum, M.
— and Prydz, H.
Studies on tissue thromboplastin. I. Solubilization with sodium deoxycholate (130)92
Hwang, K.J., see Watari, H.
Hwang, P.C., see Brockerhoff, H.
Hyams, D.E.
—, Sabesin, S.M., Greenberger, N.J. and Isselbacher, K.J.
Inhibition of intestinal protein synthesis and lipid transport by ethionine (125)166
Hyatt, E.A.
Polyriboadenylate synthesis by nuclei from developing sea-urchin embryos. I. Characterization of the ATP polymerase reaction (142)246;
Polyriboadenylate synthesis by nuclei from developing sea-urchin embryos. II. Polyriboadenylic acid priming of ATP polymerase (142)254
Hyun, S.A.
—, Vahouny, G.V. and Treadwell, C.R.
Portal absorption of fatty acids in lymph- and portal vein-cannulated rats (137)296;
Mechanism of stimulation of cholesterol absorption by 2-ethyl-n-caproic acid in vivo (137)306

I

Iannotti, A.T., see Johns, D.G.; see Sartorelli, A.C.
Ibrahim, S.A.
The contaminating effects of cephalins in estimating non-esterified fatty acids (137)413
Ibsen, K.H.
— and Schiller, K.W.
Oscillations of nucleotides and glycolytic intermediates in aerobic suspensions of Ehrlich ascites tumor cells (131)405
Ibuki, F., see Gasior, E.
Ichii, S.
—, Omata, S. and Kobayashi, S.
Purification and some properties of cholesterol 20α-hydroxylase from hog adrenal mitochondria (139)308
Ichikawa, Y.
— and Yamano, T.
Reconversion of detergent- and sulfhydryl reagent-produced P-420 to P-450 by polyols and glutathione (131)490;
The role of the hydrophobic bonding in P-450 and the effect of organic compounds on the conversion of P-450 to P-420 (147)518
Ichishima, E.
— and Yoshida, F.
Molecular weight and amino acid composition of acid proteinase of Aspergillus saitoi (110)155;
Conformation of aspergillopeptidase A in aqueous solution (128)130;
Conformation of aspergillopeptidase A in aqueous solution. II. Ultraviolet optical rotatory dispersion of aspergillopeptidase A (147)341
Ifft, J.B.
— and Williams, A.
The partial molar volumes of cesium and chloride ions in solution as a function of concentration (136)151
Iga, Y., see Suyama, T.
Igarashi, K., see Hiraga, S.
Igo, R.P., see Mahoney, C.P.
Iino, T., see Suzuki, H.
Iizuka, M.
— and Mizuno, D.
Turnover of NAD in bacteria (148)320
Iizuka, T., see Morimoto, H.
Ikeda, Y., see Horikoshi, K.; see Nonoyama, M.; see Takahashi, H.
Ikehara, M., see Nishimura, S.
Illingworth Brown, B.
— and Brown, D.H.
Subcellular distribution of enzymes in Type II glycogenosis and the occurrence of an oligo-α-1,4-glucan glucohydrolase in human tissues (110)124
—, see Brown, D.H.
Ilse, D.
— and O'Brien, R.W.
Glutamate biosynthesis by Clostridium kluyveri: An unusual distribution of radioactivity in glutamic acid (141)454
Imai, K.
—, Asano, A. and Sato, R.
Oxidative phosphorylation in Micrococcus denitrificans. I. Preparation and properties of phosphorylating membrane fragments (143)462
—, see Asano, A.
Imai, M., see Okamoto, T.
Imai, Y., see Oshino, N.
Imamura, A.
Effect of carbon dioxide upon the thiocyanate inhibition of hydrochloric acid secretion in frog gastric mucosa (135)155
Imrie, R.C.
— and Hutchison, W.C.
Changes in the activity of rat adrenal ribonuclease and ribonuclease inhibitor after administration of corticotrophin (108)106
Imsande, J., see Atherly, A.G.
Inaba, K., see Utsumi, K.
Inada, Y., see Hachimori, Y.; see Matsushima, A.
Inano, H.
—, Egusa, M. and Tamaoki, B.
Studies on the enzymes related to steroidogenesis in testicular tissue of guinea pig (144)165
—, Nakano, H., Shikita, M. and Tamaoki, B.
The influence of various factors upon testicular enzymes related to steroidogenesis (137)540
—, see Nakano, H.
Infante, R.
—, Polonovski, J. et Donon, O.
Phospholipase plasmatique posthéparine chez le rat (144)490
Ingram, V.M., see McLaughlin, C.S.
Inoue, H.
—, Hosokawa, K. and Takeda, Y.
Protein and RNA syntheses in dispersed rat-liver cells (103)127
—, see Takeda, J.
Inoue, K.
— and Nojima, S.
Immunochemical studies of phospholipids. III. Production of antibody to cardiolipin (144)409
Inoue, S.
Isolation of new polysaccharide sulphates from Charonia lampas (101)16
— and Ando, T.
Interaction of clupeine and DNA (129)649
—, see Inoue, Y.
Inoue, Y.
— and Inoue, S.
Observation of specific interaction of mononucleotides with ribonucleases by nuclear magnetic resonance spectra (128)100
— and Kubo, H.
Metabolism of Streptomyces griseus. X. A study of Streptomyces griseus cytochrome b (110)57
— and Nakanishi, K.

Proton magnetic resonance study of nucleic acids (120)311
Inui, Y., see Wheeler, K.P.
Ionesco, H., see Glaser, L.
Ipata, P.L., see Ronca, G.
Iritani, N., see Takeuchi, N.
Irreverre, F.
A modified Sakaguchi spray (111)551; Amino acid composition of telomycin-producing Streptomyces (117)485
Irvine, D., see Sick, K.
Irwin, R.J.
—, Alpern, R.J. and Webster, G.R.
Observations on lysophosphatide and triglyceride hydrolysis by rat liver preparations (125)600
Irzykiewicz, H., see Powning, R.F.
Isemura, T., see Aki, K.; see Takagi, T.
Ishida, N., see Maeda, H.; see Ono, Y.
Ishigami, M.
—, Maeda, Y. and Mishima, K.
Retinene–tryptophan complex (112)372
Ishihama, A.
RNA polymerase of HeLa cells (145)272
— and Kaneyama, T.
The molecular mechanism of enzymic reaction of RNA synthesis (138)480
Ishihara, K.
— and Schmid, K.
The size, composition and amino acid sequence of certain glycopeptides of human plasma Ba-α_2-glycoprotein (133)56
Ishimoto, N.
– and Strominger, J.L.
Uridine phosphate as the sole uridine nucleotide product of hyaluronic acid synthetase in group A Streptococci (148)296
Israel, Y.
— and Titus, E.O.
A comparison of microsomal ($Na^+ + K^+$)-ATPase with K^+-acetylphosphatase (139)450
Isselbacher, K.J., see Alpers, D.H.; see Hyams, D.E.; see Saunders, S.J.
Itada, N., see Berman, K.
Itano, H.A., see Yamada, S.
Itho, H., see Miura, Y.
Itoh, R.
—, Mitsui, A. and Tsushima, K.
5'-Nucleotidase of chicken liver (146)151
IUPAC-IUB Commission on Biochemical Nomenclature
Tentative rules. Abbreviations and symbols for chemical names of special interest in biological chemistry (BBA Rules 4) (108)1; Tentative rules. Nomenclature of corrinoids (BBA Rules 5) (117)285; Tentative rules. Abbreviated designation of amino acid derivatives and polypeptides (BBA Rules 6) (121)1
Ivanov, Ch.P., see Shipolini, R.
Iverius, P.H.
— and Laurent, T.C.
Precipitation of some plasma proteins by the addition of dextran or polyethylene glycol (133)371
Ivey, J.L., see Griffith, O.H.
Iwabuchi, M.
—, Kono, M., Oumi, T. and Osawa, S.
RNA components in ribonucleoprotein particles occurring during the course of ribosome formation in Escherichia coli (108)211
—, Otaka, E., Kono, M. and Osawa, S.
The effect of 5-fluorouracil on the ribosome formation in Escherichia coli (114)83
Iwanaga, S.
—, Wallén, P., Gröndahl, N.J., Henschen, A. and Blombäck, B.
Isolation and characterization of N-terminal fragments obtained by plasmin digestion of human fibrinogen (147)606
Iwatani, A., see Izui, K.
Iwatsubo, M.
— et Capeillere, C.
Cytochrome b_2 L-lactate déshydrogenase): Equilibre et processus élémentaires de la réaction de combinaison du substrate à l'enzyme (146)349
—, see Cassoly, R.; see Pantaloni, D.
Iwayama, Y., see Adachi, K.
Iyer, R.N., see Goldstein, I.J.
Izaki, K., see Last, J.A.
Izawa, S.
The swelling and shrinking of chloroplasts during electron transport in the presence of phosphorylation uncouplers (102)373
— and Good, N.E.
The number of sites sensitive to 3-(3,4-dichlorophenyl)-1,1-dimethylurea, 3-(4-chlorophenyl)-1,1-dimethylurea and Atrazine in isolated chloroplasts (102)20; Hill reaction rates and chloroplast fragment size (109)372
— and Hind, G.
The kinetics of the pH rise in illuminated chloroplast suspensions (143)377
Izui, K.
—, Iwatani, A., Nishikido, T., Katsuki, H. and Tanaka, S.
Regulation of phosphoenolpyruvate carboxylase activity in Escherichia coli (139)188
Izumi, F., see Yoshida, H.

J

Jaakonmäki, P.I.
—, Yarger, K.A. and Horning, E.C.
Gas–liquid chromatographic separation of human urinary steroid glucuronides (137)219
—, see Stouffer, J.E.
Jablonsiki, P.
— and McQuilan, M.T.
The distribution of proteolytic enzymes in the thyroid gland (132)454
Jackman, L.M.
—, O'Brien, I.G., Cox, G.B. and Gibson, F.
Methionine as the source of methyl groups for ubiquinone and vitamin K: A study using nuclear magnetic resonance and mass spectrometry (141)1
—, see Young, I.G.
Jackson, C.D.
— and Sells, B.H.
The effect of bovine growth hormone on formation of RNA by rat liver slices (142)419
Jackson, D.S., see Bentley, J.P.
Jackson, E.M., see Jackson, J.E.
Jackson, J.E.
—, Jackson, E.M. and Freeman, S.
Demonstration, extraction and intracellular distribution of kidney phosphoprotein kinase activity (105)483
Jackson, J.F.
—, Kornberg, R.D., Berg, P., RajBhandary, U.L., Stuart, A., Khorana, H.G. and Kornberg, A.
Heterogeneity of DNA associated with crystalline yeast cytochrome b_2 (108)243
— and Smith, T.M.
Synthesis of sodium β-mercaptopyruvate (121)159
Jackson, S.H., see Moscarello, M.A.
Jacob, J., see Sirlin, J.L.
Jacob, S.T.
— and Busch, H.
Template activity of nuclear RNA fractions of the Walker tumor (138)249
Jacobi, G., see Csányi, V.
Jacobs, E.E., see Sun, F.F.
Jacobs, J.M., see Jacobs, N.J.
Jacobs, N.J.
—, Maclosky, E.R. and Jacobs, J.M.
Role of oxygen and heme synthesis and the development of hemoprotein activity in an anaerobically-grown Staphylococcus (148)645
Jacobs, P.S., see Littlefield, J.W.
Jacobson, K.B., see Tyndall, R.L.
Jacobsson, S-O., see Hansson, E.
Jacquemin, C., see Nunez, J.
Jacquez, J.A.
Competitive stimulation: Further evidence for two carriers in the transport of neutral amino acids (135)751
— and Sherman, J.H.
The effect of metabolic inhibitors on transport and exchange of amino acids in Ehrlich ascites cells (109)128
—, see Schafer, J.A.
Jacquot-Armand, Y.
— et Guinand, S.
Composition et structure de l'α_2-macroglobuline isolée du sérum de porc (133)289
—, see Labeyrie, F.
Jadot, J.
—, Casimir, J. and Loffet, A.
Séparation et caractérisation de l'acide 2(S),4(R)-γ-hydroxy-γ-méthylglutamique à partir de Ledenbergia roseo-aenea et de l'acide 2(S),4(R)-γ-hydroxy-γ-méthylglutamique à partir de Pandanus veitchii (136)79
—, see Alderweireldt, F.
Jaffe, R.B., see Pion, R.J.
Jagarinec, N.
—, Chamberlain, J. and Ofner, P.
Metabolism of [4-^{14}C]testosterone by mouse-liver microsomes (144)479
Jagendorf, A.T., see Neumann, J.
Jakubiak, M., see Kaniuga, Z.
James, A.M.
— and List, C.F.
Some physical investigations of the behaviour of bacterial surfaces. XII. The effect of fimbriae on the electrophoretic mobility of some capsular and non-capsular bacteria of the coli-aerogenes group (112)307
James, A.T., see Haigh, W.G.; see Harris, R.V.; see Hitchcock, C.; see Wood, B.J.B.
James, E.
— and Morrison, J.F.
The reaction of phosphagens with ATP:creatine phosphotransferase (128)327
James, J.M., see Tedeschi, H.
James, K.
—, Taylor, Jr., F.B. and Fudenberg, H.H.
The effect of α_2-macroglobulin in human serum on trypsin, plasmin, and thrombin activities (133)374
Jamieson, G.A.
Reaction of diphtheria toxin neuraminidase with human transferrin (121)326
— and Gaffney, Jr., P.J.
Heterogeneity of fibrin polymerization inhibitor (121)217
Jänne, J., see Raina, A.
Janowski, M.
Synthèse chloroplastique d'acides nucléiques chez Acetabularia mediterranea (103)399
Janson, C., see Almin, K.E.
Jansz, H.S.
—, Pouwels, P.H. and Schiphorst, J.
Preparation of double-stranded DNA (replicative form) of bacteriophage ΦX174: A simplified method (123)626
—, Van Rotterdam, C. and Cohen, J.A.
Genetic recombination of bacteriophage ΦX174 in spheroplasts (119)276
—, see Pouwels, P.H.
Jaques, L.B., see Losito, R.
Jarrett, R.J.
— and Field, J.B.

Effect in vitro of anterior pituitary hormones on glucose metabolism and pyridine nucleotide levels of lactating-rat mammary gland (104)63
—, see Garratt, C.J.; see Track, N.S.
Jaton, J-C., see Ungar-Waron, H.
Jatzkewitz, H., see Sandhoff, K.
Jauregui-Adell, J.
—, Jollès, J. and Jollès, P.
Disulfide bridges of hen's egg-white lysozyme (107)97
Jayle, M.F., see Pasqualini, J.R.
Jean, D.H., see Bader, H.
Jeanloz, R.W., see Poortmans, J.R.
Jeanrenaud, B., see Crofford, O.B.; see Ho, R.J.
Jeanteur, Ph., see Le Pecq, J.B.; see Paoletti, C.
Jeffay, H., see Gan, J.C.
Jeffrey, J.J.
— and Martin, G.R.
On the role of ascorbic acid in the biosynthesis of collagen. I. Ascorbic acid requirement by embryonic chick tibia in tissue culture (121)269;
On the role of ascorbic acid in the biosynthesis of collagen. II. Site and nature of ascorbic acid participation (121)281
Jeffrey, P.D.
— and Coates, J.H.
The sedimentation coefficient of insulin in acid solution (109)551
Jeffrey, P.L.
— and Rienits, K.G.
An improved method for the isolation of hexuronic acid from chondroitin sulphate preparations (141)179
Jeffrey, S.W.
—, Ulrich, J. and Allen, M.B.
Some photochemical properties of chloroplast preparations from the chrysomonad Hymenomonas sp. (112)35
Jellinck, P.H.
— and Perry, G.
Effect of polyamines on the metabolism of [16-^{14}C]estradiol by rat liver microsomes (137)367
Jellum, E.
Effect of cystamine and cystamine derivatives on the DNA-dependent synthesis of RNA (114)200;
Thiol content of calf thymus histone fractions (115)95
—, Nygaard, O.F., Harrington, H. and Eldjarn, L.
DNA–histone interactions and priming activities of two DNA fractions from rat liver (114)612
Jendrek, J.P.
—, Barker, R.H. and Altschul, A.M.
Expulsion of methionine residue from peptide model on alkylation (136)409
Jeng, D.Y., see Mortensen, L.E.
Jenkins, M.B.
— and Garner, H.R.
Studies of a homoserineless bradytroph of Neurospora crassa: Demonstration of an aspartate β-semialdehyde dehydrogenase (141)287
Jenkins, R.C., see Sandberg, E.C.
Jenner, E.L., see Kiewiet, D.Y.
Jennings, B.R., see Riddiford, C.L.
Jenny, E., see Greenberg, D.M.
Jensen, B.
— and Dam, H.
Cholesterol metabolism in hamsters reared on diets with different effects on gallstone formation (125)367
Jensen, J.
An in vitro method for the study of cholesterol uptake at the endothelial cell surface of the rabbit aorta (135)532;
The kinetics of the cholesterol uptake in vitro at the endothelial cell surface of the rabbit aorta (135)544
Jensen, L.C., see Lossow, W.J.
Jensen, P.K.
Antimycin-insensitive oxidation of succinate and reduced nicotinamide–adenine dinucleotide in electron-transport particles. I. pH dependency and hydrogen peroxide formation (122)157;
Antimycin insensitive oxidation of succinate and reduced nicotinamide–adenine dinucleotide in electron-transport particles. II. Steroid effects (122)167
— and Kofod, B.
Isolation from beef-heart homogenate of a particulate lipoprotein containing β-carotene (116)579
—, see Rørth, M.
Jeppsson, J.-O.
Isolation and partial characterization of three human transferrin variants (140)468;
Structural studies of fragments resulting from cyanogen bromide degradation of human transferrin (140)477
Jericijo, M., see Furlan, M.
Jérusalmi, A., see Nunez, J.
Jevons, F.R., see Beeley, J.G.; see Hunt, S.
Jibril, A.O.
Proteolytic degradation of ossifying cartilage matrix and the removal of acid mucopolysaccharides prior to bone formation (136)162;
Phosphates and phosphatases in preosseous cartilage (141)605
— and Lindenbaum, A.
Non-dialyzable sialic acid compounds in ossifying and resting calf scapula cartilage (101)236
Jimenez de Asua, L.
—, Carminatti, H. and Passeron, S.
Guanosine diphosphate D-mannose pyrophosphorylase from Gleditschia macracantha (128)582
Jirgensons, B.
— and Hnilica, L.S.
The conformational changes of calf thymus histone fractions as determined by the optical rotatory dispersion (109)241
Jirku, H.
—, Hogsander, U. and Levitz, M.
15α-Hydroxyestrone "sulfate": A biliary metabolite of estrone sulfate in the nonpregnant female (137)588
Jobbágy, A.
— and Király, K.
Chemical characterization of fluorescein isothiocyanate–protein conjugates (124)166
Joh, T.H., see Goldstein, M.
Johansen, J.T.

Johansen, J.T. (continued)
—, Ottesen, M. and Svendsen, I.
Chemical derivatives of subtilisin Carlsberg with increased proteolytic activity (139)211
Johanson, R., see Bauer, R.D.
Johns, D.G.
—, Iannotti, A.T., Sartorelli, A.C., Booth, B.A. and Bertino, J.R.
The identity of rabbit-liver methotrexate oxidase (105)380
—, see Loo, T.L.; see Sartorelli, A.C.
Johns, H.E., see Weinblum, D.
Johns, R.B.
—, Looney, F.D. and Whelan, D.J.
Photochemistry of biological molecules. I. Photolysis of amino acids in the solid state (147)369
Johnson, I.S., see Gerzon, K.
Johnson, K.D., see Holzer, M.E.
Johnson, P.
— and Mihalyi, E.
Physicochemical studies of bovine fibrinogen. I. Molecular weight and hydrodynamic properties of fibrinogen and fibrinogen cleaved by sulfite in 5 M guanidine–HCl solution (102)467;
Physicochemical studies of bovine fibrinogen. II. Depolarization of fluorescence studies (102)476
—, see Friedmann, T.
Johnson, R.A..
— and Schmidt, R.R.
Enzymic control of nucleic acid synthesis during synchronous growth of Chlorella pyrenoidosa. I. Deoxythymidine monophosphate kinase (129)140
Johnston, G.A.R.
Acylation of tRNA - studies on the acylation of simple nucleosides (145)831
Johnston, I.R., see Trewavas, A.J.
Johnston, J.M.
— and Rao, G.A.
Triglyceride biosynthesis in intestinal mucosa (106)1
—, Rao, G.A. and Lowe, P.A.
The separation of the α-glycerophosphate and monoglyceride pathways in the intestinal biosynthesis of triglycerides (137)578
—, see Rao, G.A.
Johnstone, R.M.
— and Sung, C.-P.
Transport of myo-inositol in Ehrlich ascites cells (135)1052
Joliot, A.
Actions du chlorométhylurée et de l'hydroxylamine sur la réaction photochimique d'émission d'oxygène (Syst.II) (126)587
Joliot, P.
Cinétiques des réactions liées à l'émission d'oxygène photosynthétique (102)116;
Etudes simultanées des cinétiques de fluorescence et d'émission d'oxygène photosynthétique (102)135
Jollès, J.
—, Dianoux, A.-C., Hermann, J., Niemann, B. and Jollès, P.
Relationship between the cystine and tryptophan contents of five different lysozymes and their heat stability and specific activity (128)568
—, see Jauregui-Adell, J.
Jollès, P., see Dianoux, A.C.; see Jauregui-Adell, J.; see Jollès, J.; see Previero, A.
Jollès-Bergeret, B.
Désamination oxydative de l'acide L-homocystéinesulfinique par la L-glutamodéshydrogénase de foie de boeuf. Inhibition de l'enzyme par l'acide L-homocystéique (146)45
Jones, C.W.
— and Redfearn, E.R.
Electron transport in Azotobacter vinelandii (113)467;
The cytochrome system of Azotobacter vinelandii (143)340;
Preparation of red and green electron-transport particles from Azotobacter vinelandii (143)354
—, see Franklin, T.J.
Jones, L., see Ho, P.P.K.
Jones, Jr., O.W.
— and Nirenberg, M.W.
Degeneracy in the amino acid code (119)400
—, see Stead, N.W.
Jones, R.F., see Kates, J.R.
Jones, W.B.G.
—, Rothstein, A., Sherman, F. and Newell Stannard, J.
Variation of K^+ and Na^+ content during growth cycle of yeast (104)310
Jørgensen, B.B.
— and Jørgensen, O.B.
Inhibition of barley malt α-glucosidase by Tris and erythritol (146)167
Jorgensen, G., see Billen, D.
Jørgensen, O.B., see Jørgensen, B.B.
Josef, D., see Bayer, E.
Josefsson, L.
Studies with model substances on the mechanism of the formic acid-induced reversible inactivation of protein enzymes (115)148;
Separation and purification of distal retinal pigment hormone and red pigment concentrating hormone of the crustacean eyestalk (148)300
— and Lindberg, T.
Intestinal dipeptidases. I. Spectrophotometric determination and characterization of dipeptidase activity in pig intestinal mucosa (105)149;
Intestinal dipeptidases. II. Distribution of dipeptidases in the small intestine of the pig (105)162
Joshi, V.C.
— and Ramasarma, T.
Biosynthesis of ubiquinone and ubichromenol in vitamin A-deficient rats (115)294
Joswig, D., see Kleine, R.
Jouvenaz, G.H., see Van Dorp, D.A.
Joys, T.M.
— and King, J.
Susceptibility of newly transformed Bacillus subtilis to physical forces existing on the surface of solid media (145)172
Judah, J.D., see Ahmed, K.
Juergens, W.G., see Turkington, R.W.
Julius, M., see Free, C.A.
Jungalwala, F.B., see Permual, A.S.
Jungermann, K., see Decker, K.
Jurovitzkaya, N.V., see Gershanovitch, V.N.
Justus, J.T., see Chaproniere-Rickenberg, D.M.
Jutisz, M., see De la Llosa, P.; see Tertrin, C.

K

Kabat, D.
— and Attardi, G.
Synthesis of chicken hemoglobins during erythrocyte differentiation (138)382
Kabat, S., see Schwimmer, S.
Kaczmarek, D.K., see Levenberg, B.
Kadenbach, B.
Synthesis of mitochondrial proteins: Demonstration of a transfer of proteins from microsomes into mitochondria (134)430; Synthesis of mitochondrial proteins. The synthesis of cytochrome c in vitro (138)651
Kadish, L.J.
—, Fisher, D.B. and Pardee, A.B.
Photodynamic inactivation of free and vegetative bacteriophage T4 (138)57
Kadowaki, K.
—, Hosoda, J. and Maruo, B.
Effects of actinomycin D and 5-fluorouracil on the formation of enzymes in Bacillus subtilis (103)311
— and Maruo, B.
Pulse-labelled RNA formed in the presence of actinomycin D (119)480
Kagawa, Y.
Target size of components in oxidative phosphorylation. Studies with a linear accelerator (131)586
Kahn, J.S., see Carell, E.F.; see Gnanam, A.
Kahn, L.D.
— and Witnauer, L.P.
Viscometric study of solubilized calfskin collagen using the Zimm–Crothers viscometer (133)184
Kahn, V.
— and Blum, J.J.
ATP-independent nicotinic acid mononucleotide pyrophosphorylase of Astasia longa (146)305
Kaji, A.
The reaction of yeast hexokinase with sulfhydryl reagents (122)43
— and Nakada, D.
On the functional activity of conventionally prepared chloramphenicol particles (145)508
—, see Suzuka, I.
Kaji, H.
Genetic code and streptomycin: Their relation to ribosomal subunits (134)134
— and Tanaka, Y.
Sedimentation behavior of tRNA and aminoacyl-tRNA (138)642
Kajiwara, K., see Mueller, G.C.
Kakimoto, Y.
—, Kanazawa, A. and Sano, I.
γ-Glutamylglutamine lactamase in mammalian tissues (132)472
—, see Kanazawa, A.
Kalous, V.
Some physicochemical properties of chromatographically isolated human orosomucoid (107)139
— and Pavliček, Z.
Interaction between haptoglobin and haemoglobin (111)337
Kaltsoya, A., see Fessas, P.
Kamen, M.D.
— and De Klerk, H.
A high-potential nonhaem iron protein from the facultative photoheterotroph Rhodopseudomonas gelatinosa (112)175
—, see Chance, B.; see Ehrenberg, A.; see Yamanaka, T.
Kameyama, T., see Ishihama, A.
Kamin, D.L., see Kirshner, N.
Kammen, H.O.
Thymine metabolism in Escherichia coli. I. Factors involved in utilization of exogenous thymine (134)301
—, Beloff, R.H. and Canellakis, E.S.
Transformation in Bacillus subtilis. I. Role of amino acids in the stabilization transformants (123)39
—, Wojnar, R.J. and Canellakis, E.S.
Transformation in Bacillus subtilis. II. The development and maintenance of the competent state (123)59
Kampine, J.P.
—, Kanfer, J.N., Gal, A.E., Bradley, R.M. and Brady, R.O.
Response of sphingolipid hydrolases in spleen and liver to increased eythrocytorhexis (137)135
Kamrin, M.
Changes in the capacity of algae to fluoresce during steady-state photosynthesis (126)262
Kanazawa, A.
—, Kakimoto, Y., Nakajima, T. and Sano, I.
Identification of γ-glutamylserine, γ-glutamylalanine, γ-glutamylvaline and S-methylglutathione of bovine brain (111)90
—, see Kakimoto, Y.; see Takao, T.
Kanazir, D., see Krsmanovic, V.; see Petrović, S.
Kandler, O.
—, Plapp, R. und Holzapfel, W.
Die Aminosäuresequenz des serinhaltigen Mureins von Lactobacillus viridescens und Leuconostoc (147)252
Kaneda, T.
Biosynthesis of branched-chain fatty acids. V. Microbial stereospecific synthesis of D-12-methyltetradecanoic and D-14-methylhexadecanoic acids (125)43
Kanemasa, Y.
—, Akamutsu, Y. and Nojima, S.
Composition and turnover of the phospholipids in Escherichia coli (144)382
Kaneshiro, T.
— and Zweig, G.
Effect of diquat (1,1'-ethylene-2,2-dipyridylium dibromide) on the formation and photoreactions of chromatophores from Rhodospirillum rubrum (126)225
Kanfer, J.N., see Kampine, J.P.
Kaniuga, Z.

Kaniuga, Z. (continued)
— and Gardas, A.
Isolation of high-molecular-weight NADH dehydrogenase of the respiratory chain by diethyl ether–Triton X-100 treatment (143)647
—, Gardas, A. and Jakubiak, M.
The effect of digitonin on the respiratory chain enzymes of a heart-muscle preparation (118)9
—, see Bryła, J.
Kanke, L., see Vassar, P.S.
Kaplan, D.
A heparitin-serine compound from human urine (136)394
Kaplan, M.M.
— and Flavin, M.
Enzymatic synthesis of L-cystathionine from the succinic ester of L-homoserine (104)390
Kaplan, S.A., see Collipp, P.J.
Kapoor, N.K.
—, Sagar, P. and Agarwala, S.C.
Effect of certain purine and pyrimidine analogues on growth, nucleic acid synthesis and ultraviolet-induced lysis in Vibrio cholerae (103)120
Kappy, M.S.
— and Metzenberg, R.L.
Studies on the basis of ethionine-resistance in Neurospora (107)425
Karasek, M., see McLennan, J.
Karcher, D.
Thin-layer chromatography as a screening technique for the study of lipids in the central nervous system (125)401
Karkas, J.D.
—, Türler, H. and Chargaff, E.
Specification of accessory biochemical characters as exemplified by the fatty acid patterns of various strains of Escherichia coli (111)96
Karlin, A.
Chemical distinctions between acetylcholinesterase and the acetylcholine receptor (139)358
— and Bartels, E.
Effects of blocking sulfhydryl groups and of reducing disulfide bonds on the acetylcholine-activated permeability systems of the electroplax (126)525
Karlsson, B., see Kjellberg, B.
Karlsson, E.
—, Eaker, D.L. and Porath, J.
Purification of a neurotoxin from the venom of Naja nigricollis (127)505
Karlsson, K.-A.
—, Norrby, A. and Samuelsson, B.
Use of thin-layer chromatography for the preliminary diagnosis of Refsum's disease (Heredopathia atactica polyneuritiformis) (144)162
Karmarkar, M.G.
— and Stanbury, J.B.
The role of pyridoxal and manganous ions in the synthesis of iodothyronines (141)483
Karnovsky, M.L., see Eichberg, J.
Karp, Jr., G.W., see Eldon Sutton, H.
Kasbekar, D.K.
Effect of carbon dioxide–bicarbonate mixtures on rat-liver mitochondrial oxidative phosphorylation (128)205
— and Durbin, R.P.
An ATPase from frog gastric mucosa (105)472
Kashiwamata, S.
—, Nakashima, K. and Kotake, Y.
Anthranilic acid hydroxylation by rabbit-liver microsomes (113)244
Kashkett, S.
— and Beck, W.S.
Reversible release of vitamin B_{12}-binding protein from bacterial ribosomes (129)350
Kassab, R.
—, Pradel, L.A., Der Terrossian, E. et Thoai, N.V.
Comparaison des groupes SH réactifs des ATP:guanidines phosphotransférases (132)347
—, see Der Terrossian, E.; see Thoai, N.V.
Katagiri, M.
—, Takemori, S., Nakazawa, K., Suzuki, H. and Akagi, K.
Benzylalcohol dehydrogenase, a new alcohol dehydrogenase from Pseudomonas species (139)173
Kataoka, R.
— and Nojima, S.
The phospholipid compositions of some Actinomycetes (144)681
Katchalski, E.
—, Yankofsky, S., Novogrodsky, A., Galenter, Y. and Littauer, U.Z.
A chemical method for the purification of amino acid-specific tRNA's (123)641
Katchalsky, A.
— and Ailam, G.
Polycondensation of amino acid phosphoanhydrides. I. Theoretical (140)1
—, see Lewinsohn, R.; see Marikovsky, Y.; see Paecht-Horowitz, M.
Kates, J.R.
— and Jones, R.F.
Periodic increases in enzyme activity in synchronized cultures of Chlamydomonas reinhardtii (145)153
— and McAuslan, B.R.
Purification of acid deoxyribonuclease from HeLa cells. Inhibition kinetics of native and modified forms of the HeLa calf-spleen enzymes (132)419
Kates, M.
—, Madelay, J.R. and Beare, J.L.
Action of phospholipase B on ultrasonically dispersed lecithin (106)630
—, Palameta, B., Perry, M.P. and Adams, G.A.
A new glycolipid sulfate ester in Halobacterium cutirubrum (137)214
— and Volcani, B.E.
Lipid components of diatoms (116)264
Kato, K.
—, Sugino, Y. and Endo, H.
Effects of a prophage inducer, a nitrofuran derivative, on the DNA metabolism in Escherichia coli (119)309
Kato, T., see Yamada, R.
Katoh, S., see Duffy, J.J.; see Ke, B.; see Matsubara, M.
Katsuki, H., see Izui, K.; see Shigesada, K.
Katsumi, H., see Terao, K.
Katsura, N.

— and Davidson, E.A.
Studies on porcine costal cartilage protein–polysaccharide complex. I. Enzymatic degradation (121)120;
Studies on porcine costal cartilage protein–polysaccharide complex. II. Chemical studies (121)128;
Metabolism of connective tissue polysaccharides in vivo. IV. The sulphate group (121)135
Kattermann, R., see Söling, H.D.
Katz, E.P.
—, Mechanic, G.L. and Glimcher, M.J.
The ultracentrifugal and free zone electrophoretic characterization of the neutral soluble proteins of embryonic bovine enamel (107)471
—, see Mechanic, G.L.
Katz, I.
— and Keeney, M.
The lipids of some rumen holotrich protozoa (144)102
Katz, J., see Foster, D.W.
Katz, J.J., see Cope. B.T.; see Ghosh, A.K.; see Strain, H.H.; see Uphaus, R.A.
Katz, M.
— and Ordin, L.
Metabolic turnover in cell wall constituents of Avena sativa L. coleoptile sections (141)118;
A cell wall polysaccharide-hydrolyzing enzyme system in Avena sativa L. coleoptiles (141)126
Katz, S.A., see Cowans, J.A.
Katzen, R., see Vahouny, G.V.
Kaufman, S., see Matsubara, M.
Kaufmann, E., see Ginzburg-Teitz, Y.
Kaufmann, G., see Schubert, K.
Kauss, H.
Biosynthesis of the glucuronic acid unit of hemicellulose B from UDP-glucuronic acid (148)572
Kawachi, T., see Hirata, Y.
Kawade, Y., see Okamoto, T.; see Yoshikawa-Fukada, M.
Kawai, S.
—, Oshima, T. and Egami, F.
Incorporation of oxygen atoms from molecular oxygen into nitro group of p-nitrobenzoate by Streptomyces thioluteus (104)316
Kawamura, Y., see Sugimura, T.; see Yamagata, T.
Kawano, T., see Suyama, T.
Kawasaki, K., see Yajima, H.
Kawiak, J.
— and Miks, B.
Fractionation of acidic polysaccharides derived from a small group of chondrocytes (117)88
Kay, C.M., see McCubbin, W.D.; see Verpoorte, J.A.
Kay, E.R.M., see Meizel, S.
Kaye, A.M.
—, Fridlender, B., Salomon, R. and Bar-Meir, S.
Methylation of DNA in vitro: Enzymic activity from different bacterial strains on DNA from various sources (142)331
Kayne, H.L.
— and Lifschitz, M.D.
Endocrine effects on rat cardiac myofibrillar ATPase (104)603
Kaziro, Y., see Yoshida, M.
Ke, B.
—, Katoh, S. and San Pietro, A.
Light-induced rapid absorption changes during photosynthesis. VII. Some reactions in sonicated chloroplasts (131)538
— and Ngo, E.
Light-induced rapid absorption changes during photosynthesis. VI. Complex reactions in some blue-green algae (109)431;
Light-induced rapid absorption changes during photosynthesis. VIII. Cytochrome and bacteriochlorophyll reactions in Rhodospirillum rubrum cells (143)319
Keana, J.F.W., see Griffith, O.H.
Keck, J., see Griss, G.
Keech, D.B., see Edwards, J.B.
Keeley, F.W., see Gamborg, O.L.
Keen, H., see Garratt, C.J.; see Track, N.S.
Keeney, M., see Katz, I.
Keijer, J.H., see Benschop. H.P.
Keil, B., see Meloun, B.
Keilova, H., see Escribano, M.J.
Kellaway, I.W.
— and Saunders, L.
The solubilization of some steroids by phosphatidylcholine and lysophosphatidylcholine (144)145
Keller, N.
Alteration of the hydrodynamic properties of hyaluronic solutions by corticosterone (148)757
Kellogg, T.F.
— and Wostmann, B.S.
The effect of carbohydrate digestibility of fecal steroids (125)617
Kelly, R.T.
— and Greiff, D.
Neuraminidase and neuraminidase-labile substrates in experimental influenza virus encephalitis (110)548
Kemp, Jr., A.
— and Groot, G.S.P.
Deoxyadenine nucleotides and oxidative phosphorylation (143)628
Kemp, J.W.
— and Woodbury, D.M.
Synthesis of urea-cycle intermediates from citrulline in brain (111)23
Kemp, M.B.
— and Quayle, J.R.
Incorporation of C_1 units into allulose phosphate by methane-grown Pseudomonas methanica (107)174
Kemp, P., see Atherton, R.S.
Kempner, E.S.
— and Miller, J.H.
Molecular biology of Euglena gracilis. I. Growth conditions and cellular composition (104)11;
Molecular biology of Euglena gracilis. II. Utilization of labeled carbon, sulfur and phosphorus (104)18
Kennedy, I.R.
Primary products of symbiotic nitrogen fixation. I. Short-term exposures of serradella nodules to $^{15}N_2$ (130)285;

Kennedy, I.R. (continued)
Primary products of symbiotic nitrogen fixation. II. Pulse labelling of serradella nodules with $^{15}N_2$ (130)295
—, Parker, C.A. and Kidby, D.K.
The probable site of nitrogen fixation in root nodules of Ornithopus sativus (130)517
Kennedy, J., see Tigier, H.
Kennedy, K.G.
— and Nayler, W.G.
Effect of quinidine on the activity of a sodium–potassium activated, magnesium-dependent, ATPase enzyme isolated from toad cardiac muscle (110)174
Kenworthy, P., see Dixon, M.
Kenyon, A.J., see Gauthier, P.B.
Kenyon, D.H., see Steinman, G.
Kepes, A.
Sequential transcription and translation in the lactose operon of Escherichia coli (138)107
— and Beguin, S.
Peptide chain initiation and growth in the induced synthesis of β-galactosidase (123)546
Kernohan, J.C.
A method for studying the kinetics of the inhibition of carbonic anhydrase by sulphonamides (118)405
Kerr, J.D., see Dunphy, P.J.
Kerry, K.R., see Messer, M.
Kersten, H.
—, Schnieders, B., Leopold, G. and Kersten, W.
Die Desoxyribonukleasen von Escherichia coli und die Wirkung von Mitomycin C (108)619
Kersten, W., see Kersten, H.
Kerza-Kwiatecki, A., see Mazel, P.
Kessler, E.
The effect of glucose on hydrogenase activity in Chlorella (112)173
Keynes, R.D., see Cheng, S.C.
Kezdy, F.J.
Inhibition of the trypsin-catalyzed activation of chymotrypsinogen by N-acetyl-L-3,5-dibromotyrosine (132)197
Khafagy, E.Z.I.
— and Lambooy, J.P.
Inhibition of protein, RNA and DNA synthesis in Escherichia coli by p-methoxyphenethyl alcohol (123)646
Khairallah, P.A.
—, Smeby, R.R., Page, I.H. and Bumpus, F.M.
Urea and amino acids on angiotensin interaction with smooth muscle (104)85
Khalef, S., see Birk, Y.
Khan, I.M.
—, Dill, C.W., Chandan, R.C. and Shahani, K.M.
Production and properties of the extracellular lipase of Achromobacter lipolyticum (132)68
Khan, N.A.
— and Eaton, N.R.
Purification and characterization of maltase and α-methyl glucosidase from yeast (146)173
Khandwala, P.K.
— and Smith, R.A.
Metabolism of phosphoramidates. IV. A phosphoryl transfer dependent on purine nucleosides (136)448
Khorana, H.G., see Jackson, J.F.
Kidby, K.D., see Kennedy, I.R.
Kido, R.
—, Noguchi, T. and Matsumura, Y.
The isolation and identification of 5-hydroxy-L-kynurenine from the urine of hens (141)270
—, Noguchi, T., Tsuji, T. and Matsumura, Y.
The identification of 4,6-quinolinediol and 4,8-quinolinediol in the urine of hens (136)131
Kiersky, E.S., see Gamble, W.
Kiese, M., see Von Jagow, R.
Kiewiet, D.Y.
—, Hall, D.O. and Jenner, E.L.
Effect of carbonylcyanide m-chlorophenylhydrazone on the photochemical reactions of isolated chloroplasts (109)284
Kikuchi, G., see Motokawa, Y.; see Narisawa, K.; see Okuyama, M.; see Sato, H.
Kikugawa, K.
—, Hayatsu, H. and Ukita, T.
Modifications of nucleosides and nucleotides. V. A selective modification of cytidylic acids with Girard-P reagent (134)221
—, Muto, A., Hayatsu, H., Miura, K. and Ukita, T.
Modifications of nucleosides and nucleotides. VI. The reaction of Girard-P reagent with tRNA (134)232
Kim, J.H.
—, Gelbard, A.S., Perez, A.G. and Eidinoff, M.L.
Effect of 5-bromodeoxyuridine on nucleic acid and protein synthesis and viability in HeLa cells (134)388
Kim, K.-H., see Michaels, R.
Kim, S., see Paik, W.K.
Kim, W.S.
Complete fractionation of bacteriochlorophyll and its degradation products (112)392
Kimbel, Jr., R.L., see Shields, J.E.
Kimizuka, H.
—, Nakahara, T., Uejō, H. and Yamauchi, A.
Cation-exchange properties of lipid films (137)549
Kimmich, G.A.
— and Rasmussen, H.
The effect of parathyroid hormone on mitochondrial ion transport in the terminal portion of the cytochrome chain (113)457; Inhibition of mitochondrial respiration by loss of intra-mitochondrial K^+ (131)418
Kimura, K.
—, Tomoda, J. and Sibatani, A.
Fractionation of RNA's with phenol. IV. Chromatographic analysis of a rapidly labelled RNA fraction of the normal rat liver (108)540
—, see Watari, H.
King, C.M.
— and Kriek, E.
Differential reactivity of oxidation products of o-aminophenols towards protein and nucleic acid (111)147
King, H.W.S.
The heterogeneity of sRNA prepared by different methods (134)194
—, see Hawtrey, A.O.
King, J., see Joys, T.M.; see Steiner, D.F.
King, L., see Chaykin, S.
King, M.V., see Marfey, P.S.

King, N.K.
—, Looney, F.D. and Winfield, M.E.
Amino acid free radicals in oxidised metmyoglobin (133)65
King, T.E.
— and Camerino, P.W.
The effect of cyanide on the Keilin–Hartree preparation and purified cytochrome oxidase (105)603
—, see Bhuvaneswaran, C.; see Wilson, D.F.
Kinomura, Y., see Yajima, H.
Kinoshita, J.H., see Hayman, S.; see Lou, M.F.
Kinoshita, K., see Watari, H.
Kinsella, J.E.
Increased lipoperoxide content of orotic acid-induced fatty liver (137)204
Kinsky, S.C.
—, Demel, R.A. and Van Deenen, L.L.M.
Further studies on the hemolytic action of filipin and derivatives (135)835
—, Luse, S.A., Zopf, D., Van Deenen, L.L.M. and Haxby, J.
Interaction of filipin and derivatives with erythrocyte membranes and lipid dispersions: Electron microscopic observations (135)844
Kipnis, D.M., see Turtle, J.R.
Király, K., see Jobbágy, A.
Kirby, K.S., see Parish, J.H.
Kircher, H.W., see Ory, R.L.
Kirilov, S., see Bresler, S.
Kirk, J.E., see Haruki, F.
Kirk, M., see Pedersen, T.A.
Kirsch, M.A., see Campo, R.D.
Kirschbaum, J.
— and Wainio, W.W.
A beef-heart cytochrome b dependent on non-heme iron for its reduction (113)27; Release of sulfhydryl groups in cytochrome oxidase by ethylenediaminetetraacetic acid (118)643
Kirschenbaum, D.M., see Carty, R.P.
Kirshner, A.G., see Kirshner, N.
Kirshner, N.
—, Holloway, C. and Kamin, D.L.
Permeability of catecholamine granules (112)532
—, Kirshner, A.G. and Kamin, D.L.
ATPase activity of adrenal medulla catecholamine granules (113)332
Kitahara, K., see Kusaka, I.
Kithier, K.
— and Prokeš, J.
Fetal α_1-globulin of rat serum (127)390
Kitto, G.B.
Purification and properties of ostrich heart malate dehydrogenase (139)16
— and Lewis, R.G.
Purification and properties of tuna supernatant and mitochondrial malate dehydrogenases (139)1
Kitzes, J., see Gitlin, D.
Kivirikko, K.I., see Bhatnagar, R.S.
Kivity-Vogel, T.
— and Elson, D.
On the metabolic inactivation of mRNA in Escherichia coli: Ribonuclease I and polynucleotide phosphorylase (138)66
Kjellberg, B.
— and Karlsson, B.
A comparison of changes in lactate dehydrogenase isoenzyme patterns of porcine, human and bovine milk during lactation periods (128)589
Klain, G.J.
— and Whitten, B.K.
The effect of orotic acid and cold stress on lipogenesis in white adipose tissue (144)174
Klavins, J.V.
Pathology of amino acid excess. V. Effects of methionine on free amino acids in serum (104)554
Klebanoff, S.J.
—, Clem, W.H. and Luebke, R.G.
Peroxidase–thiocyanate–hydrogen peroxide antimicrobial system (117)63
—, see Cathey, G.M.
Klebanova, L.M., see Kochetkov, N.K.
Kleber, H.P., see Aurich, H.
Klein, A.
—, Mathews, C.K., Eisenstadt, J. and Lengyel, P.
On the requirement for formyl residues in the synthesis of bacteriophage T_4 proteins (149)622
Klein, M.D., see Fox, A.C.
Kleine, R.
—, Joswig, D. und Hanson, H.
Isolierung und Reinigung einer löslichen O-Acetyl-Aryl-Esterase aus Rattennieren (139)511
Kleinen Hammans, J.W., see Thomas, J.B.
Kleinzeller, A.
— and Knotková, A.
Evaluation of the extracellular space of tissue slices from steady-state kinetics (126)604
—, Nedvídková, J. and Knotková, A.
Effect of saline osmolarity on the steady-state level of water and electrolytes in kidney cortex cells (135)286
—, see Kotyk, A.; see Nemček, O.
Kleitke, B.
—, Heier, G. and Wollenberger, A.
Influence of thyroxine treatment on the activity of mitochondrial α-glycerophosphate dehydrogenase in liver, heart and skeletal muscle of several mammalian species (130)270
Klemperer, H.G.
— and Canellakis, E.S.
Formation of terminal uridylate sequences on sRNA (129)157
Kleppe, K.
Aspartate transcarbamylase from Escherichia coli. I. Inhibition by inorganic anions (122)450
—, Sanner, T. and Pihl, A.
Preferential inactivation of the allosteric function of aspartate transcarbamylase by X-rays (118)210
— and Spaeren, U.
Aspartate transcarbamylase from Escherichia coli. II. Interaction of metal ions with substrates, inhibitors and activators (128)199
—, see Damjanovich, S.
Klingenberg, M., see Palmieri, F.; see Pfaff, E.
Klink, F.
—, Kloppstech, K., Kramer, G. und Dimigen, J.
Aminosäure-Transferenzyme aus Leber.

Klink. F. (continued)
II. Untersuchungen über Funktion und Eigenschaften zweier komplementär wirkender Transferfaktoren aus Kalbsleber (134)373
—, Kramer, G., Nour, A.M. und Petersen, K.G.
Aminosäure-Transferenzyme aus Leber. I. Trennung und Teilreinigung zweier komplementär wirksamer Enzyme durch Ionentauschchromatographie (134)360
— und Richter, D.
Zwei Aminosäuretransfer-Faktoren aus Hefe: Isolierung, Verhalten und Vergleich mit heterologen Transferfaktoren (114)431
Klitgaard, H.M., see Kress, L.F.
Kloppstech, K., see Klink, F.
Klouwen, H.M., see Betel, I.
Klubes, P.
— and Mandel, H.G.
Effects of purine nucleoside triphosphates on amino acid incorporation in a cell-free system from 8-azaguanine-treated Bacillus cereus (129)594
Klucas, R.V.
— and Burris, R.H.
Locus of nitrogen fixation in soybean nodules. Fixation by crushed nodules (136)399
Klucics, E., see El-Aasser, A.A.
Kluepfel, D., see Lancini, G.C.
Kluge, H.
—, Rasch, R., Brux, B. und Frunder, H.
Bildung und Struktur des Ascorbatradikals (141)260
Kluh, I., see Meloun, B.
Klungsöyr, L.
Mannitol kinase in cell-free extracts of Escherichia coli (122)362;
Purification of the mannitol-1-phosphate dehydrogenase of Escherichia coli (128)55;
The binding of adenine nucleotides to the mannitol-1-phosphate dehydrogenase of Escherichia coli (146)10
Klyutchova, V.V., see Gershanovitch, V.N.
Knappe, J.
—, Bohnert, E. and Brümmer, W.
S-Adenosyl-L-methionine, a component of the clastic dissimilation of pyruvate in Escherichia coli (107)603
Kneer, P., see Söling, H.D.
Knight, C.G., see Creeth, J.M.
Knight, Jr., E.
—, D'Eustachio, A.J. and Hardy, R.W.F.
Flavodoxin: A flavoprotein with ferredoxin activity from Clostridium pasteurianum (113)626
—, see Hardy, R.W.F.
Knight, J.A., see Bresnick, E.
Knight, K.L.
—, Roelofs, M.J. and Haurowitz, F.
Ratios of the Fab fragments I and II from rabbit antibodies and non-specific γ-globulins (133)333
Knipprath, W.G.
— and Mead, J.F.
Synthesis of [1-^{14}C]15-hexadecanoic acid and its metabolism in the rat (116)198
Knobloch, E.
Polarographisches Studium der Photolyse und Photoreduktion von Riboflavin und 6,7-Dimethyl-9-(formylmethyl)-isoalloxazin (141)19
—, see Koziol, J.
Knorre, D.G.
— and Shamovsky, G.G.
Investigation of the role of 2'-OH groups in the formation of secondary structure in polyribonucleotides: Acetylation studies (142)555
—, see Drevitch, V.F.; see Girshovich, A.S.; see Zagrebelny, S.N.
Knotková, A., see Kleinzeller, A.
Knüsel, F., see Hartmann, G.
Knutsen, G.
Induction of nitrite reductase in synchronized cultures of Chlorella pyrenoidosa (103)495
Ko, A., see Gerwing, J.
Kobata, A.
— and Zirô, S.
The acid-soluble nucleotides of milk. III. Occurrence of UDP-N-acetyllactosamine and UDP-D-xylose in pig's milk and colostrum (107)405
Kobayashi, K.
— and Forrest, H.S.
Identification of pteridines produced by three species of photosynthetic bacteria (141)642
Kobayashi, S.
—, Hagihara, B., Masuzumi, M. and Okunuki, K.
Preparation and properties of mitochondria from mammalian cells cultured in vitro (113)421
—, see Ichii, S.
Kobayashi, Y.
— and Halvorson, H.O.
Incorporation of amino acids into protein in a cell-free system from Bacillus cereus (119)160
Koblick, D.C.
— and Thompson, A.R.
Choline and sodium interactions in ouabain-treated and eserine-treated frog skins (135)903
Kočent, A., see Doležalová, V.
Koch, A.L., see Boniface, J.; see Peterson, R.N.
Koch, M., see De Nayer, Ph.
Kochetkov, N.K.
—, Budowsky, E.I., Broude, N.E. and Klebanova, L.M.
Specific cleavage of tRNA at inosine and 2-dimethylamino-6-oxopurine residues (134)492
—, Budowsky, E.I., Demushkin, V.P., Turchinsky, M.F., Simukova, N.A. and Sverdlov, E.D.
The chemical modification of nucleic acids. I. The preparation of deuridylic RNA's (142)35
—, see Budowsky, E.I.
Kodama, H., see Ubuka, T.
Kodama, M.
—, Tagashira, Y. and Nagata, C.
The interaction of pinacyanol with nucleic acids (129)638
Koehn, P.V., see Papaconstantinou, J.
Koen, A.L.
A tissue-specific shift in lactate dehydrogenase sub-band patterns of the house mouse (140)487;
Lactate dehydrogenase isozyme sub-bands: New bands derived from isolated sub-bands (140)496

— and Shaw, C.R.
Retinol and alcohol dehydrogenases in retina and liver (128)48
Kofod, B., see Jensen, P.K.
Kofoed, J.A.
— and Van B. Robertson, W.
Ascorbic acid and the synthesis of chondroitin sulfate (124)86
Köhler, K., see Ristow, H.
Kohlmeier, V., see Horowitz, J.
Kohn, H.I., see Adelstein, S.J.
Kohn, K.W.
— and Spears, C.L.
Alkylated DNA: Buoyant density changes and modes of decomposition (145)720;
Stabilization of nitrogen-mustard alkylations and inter-strand crosslinks in DNA by alkali (145)734
Kohn, P.
—, Dawes, E.D. and Duke, J.W.
Absorption of carbohydrates from the intestine of the rat (107)358
Köhnlein, W.
—, Thorsett, G. and Hutchinson, F.
A bacterial DNA with a difference in thymine content in the complementary strands (119)195
Koida, M., see Hano, K.
Koide, S.S.
Further study on the purification of 3α-hydroxysteroid dehydrogenase of rat liver (110)189
— and Torres, M.T.
Distribution of 3-β-hydroxysteroid dehydrogenase and Δ^5-3-oxosteroid isomerase in homogenate fractions of human term placenta (105)115;
Isolation of 3-oxosteroid Δ^4— Δ^5-isomerase of human term placenta (122)151
—, see Doman, E.
Koike, M., see Hayakawa, T.
Koizumi, T.
—, Nakamura, N. and Abe, H.
Changes in acid mucopolysaccharide in the liver in hepatic fibrosis (148)749
Kojima, Y., see Mori, M.; see Nakazawa, A.
Kok, B.
— and Rurainski, H.J.
Long-wave absorption and emission bands in chloroplast fragments (126)584
—, Rurainski, H.J. and Owens, O.V.H.
The reducing power generated in photoact I of photosynthesis (109)347
—, see Malkin, S.
Koketsu, K., see Abood, L.G.
Kolenbrander, H.M.
A sex difference in the effect of ethionine on the activity of rat liver urocanase (141)184
Kolínská, J.
— and Semenza, G.
Studies on intestinal sucrase and on intestinal sugar transport. V. Isolation and properties of sucrase–isomaltase from rabbit small intestine (146)181
—, see Semenza, G.
Kollár, K., see Kováč, L.
Koller, F., see Richter, J.
Kometiani, Z.
— and Cagan, R.H.
An electron spin resonance signal in brain microsomes (135)1083
Kondo, N.S., see Helmkamp, G.K.
König, C.
— und Schlegel, H.G.
Oscillationen der Ureaseaktivität von Hydrogenomonas H 16 in statischer Kultur (139)182
König, G., see Cennamo, C.
Konigsberg, W.
— and Lehmann, H.
The amino acid substitution in hemoglobin M_{Iwate} (107)266
—, see Rifkin, D.
Koningsberger, V.V., see Van der Meer, J.H.H.
Konishi, K.
— and Lorand, L.
Separation of activated fibrin-stabilizing factor from thrombin (121)177
Kono, M., see Iwabuchi, M.
Kopeč, M., see Budzyński, A.Z.
Kopperschläger, G., see Augustin, H.W.
Korach, S.
Isolement et propriétés d'une lipoprotéine soluble de Fasciola hepatica (125)335
Korble, V., see Nordwig, A.
Korenman, S.G.
—, Craven, C.R. and Anfinsen, C.B.
Determination of the carboxyl-terminal amino acid residue of the β-galactosidase of Escherichia coli K_{12} (124)160
— and O'Malley, B.W.
Avidin assay: A new procedure suitable for tissue fractions (140)174
—, see O'Malley, B.W.
Koritz, S.B., see Hirschfield, I.N.; see Oleinick, N.L.
Korn, E.D.
Synthesis of bis-(methyl 9,10-dihydroxystearate) osmate from methyl oleate and osmium tetroxide under conditions used for fixation of biological material. II (116)317;
Modification of oleic acid during fixation of amoebae by osmium tetroxide. III (116)325
— and Weisman, R.A.
Loss of lipids during preparation of amoebae for electron microscopy. I (116)309
—, see Lees, A.M.; see Weisman, R.A.
Kornberg, A., see Jackson, J.F.
Kornberg, H.L.
— and Smith, J.
Temperature-sensitive synthesis of isocitrate lyase in Escherichia coli (123)654;
Genetic control of the uptake of pyruvate by Escherichia coli (148)591
—, see Brice, C.B.; see Cooper, R.A.
Kornberg, R.D., see Jackson, J.F.
Korner, A., see Mansbridge, J.N.
Kornfeld, R.H.
— and Ginsburg, V.
Control of synthesis of guanosine 5'-diphosphate D-mannose and guanosine 5'-diphosphate L-fucose in bacteria (117)79
Kos, E., see Brdar, B.
Koshland, Jr., D.E., see Conway, A.; see Gounaris, A.D.
Kosicki, G.W., see Lee, L.P.K.
Kostka, V., see Meloun, B.
Kostyo, J.L.
Growth hormone and muscle RNA metabolism (129)294
—, see Blackburn, N.M.

Kosuge, T., see Hutzinger, O.
Kotake, Y., see Kashiwamata, S.; see Yoshino, M.
Kotaki, A., see Yagi, K.
Kotani, M., see Morimoto, H.; see Tasaki, A.
Kotoku, T., see Yosizawa, Z.
Kotyk, A.
Mobility of the free and of the loaded monosaccharide carrier in Saccharomyces cerevisiae (135)112
— and Höfer, M.
Uphill transport of sugars in the yeast Rhodotorula gracilis (102)410
— and Kleinzeller, A.
Affinity of the yeast membrane carrier for glucose and its role in the Pasteur effect (135)106
Kowalewski, V., see Rotunno, C.A.
Kowalski, E., see Budzyński, A.Z.
Kováč, L.
— and Kužela, Š.
Effect of uncoupling agents and azide on the synthesis of β-galactosidase in aerobically and anaerobically grown Escherichia coli (127)355
—, see Šubík, J., Russ, G. and Kollár, K.
On the relationship between respiratory activity and lipid composition of the yeast cell (144)94
Kovács, M., see Mühlrad, A.
Kovaleva, G.G., see Kuznetzov, Yu.S.
Koziol, J.
— and Knobloch, E.
The solvent effect on the fluorescence and light absorption of riboflavin and lumiflavin (102)289
Kramarczyk, H., see Berg, H.
Kramer, G., see Klink, F.
Krampitz, L.O., see Mieyal, J.J.
Krane, S.M.
—, Stone, M.J., Francois, C.J. and Glimcher, M.J.
Collagens and gelatins as phosphoryl acceptors for protein phosphokinase (111)562
—, see Glimcher, M.J.; see Kunin, A.S.
Krantz, S.B.
— and Goldwasser, E.
On the mechanism of erythropoietin-induced differentiation. II. The effect on RNA synthesis (103)325;
On the mechanism of erythropoietin-induced differentiation. IV. Some characteristics of erythropoietin action on hemoglobin synthesis in marrow cell cultures (108)455
Kranz, D.
—, Mutzbauer, M. und Schulz, G.V.
Die Bestimmung von Sedimentationskoeffizient, Diffusionskoeffizient und Molekulargewicht von α-Amylasen nach der Methode des Aktivitätstransportes (102)514
Krasna, A.I., see Feigenblum, E.
Krass, M.E.
— and Labella, F.S.
Hexosemonophosphate shunt in endocrine tissues. Quantitative estimation of the pathway in bovine pineal body, anterior pituitary, posterior pituitary, and brain (148)384
Kratky, O., see Bielig, H.J.
Krause, E.-G.
—, Pitra, C. and Wollenberger, A.
Triiodothyronine-induced increase in the enzymes of the glycogen cycle and the triose-phosphate–phosphoglycerate section of glycolysis in striated muscle of the hypothyroid rat (148)593
Krause, R.L.
— and Sokoloff, L.
Thyroxine stimulation of amino acid incorporation into protein chains of hemoglobin in vitro (108)165
Krauss, P., see Bayer, E.
Krauss, R.W., see Epel, B.
Kreimer-Birnbaum, M.
— and Grinstein, M.
Porphyrin biosynthesis. III. Porphyrin metabolism in experimental lead poisoning (111)110
Kreiss, P.
— and Cormier, M.J.
Inhibition of Renilla reniformis bioluminescence by light: Effects on luciferase and its substrates (141)181
Kress, L.F.
—, Peanasky, R.J. and Klitgaard, H.M.
Purification, properties and specificity of hog thyroid proteinase (113)375
Kretsinger, R.H., see Manner, G.
Krey, A.
— and Govindjee
Fluorescence studies on a red alga, Porphyridium cruentum (120)1
Krick, E., see King, C.M.
Krinsky, N.I., see Bamji, M.S.
Krisch, K.
Reaction of a microsomal esterase from hog liver with diethyl p-nitrophenyl phosphate (122)265
Krishna Murti, C.R., see Sahib, M.K.
Krisman, C.R., see Zancan, G.T.
Kritchevsky, D.
— and Rabinowitz, J.L.
The influence of dietary fat on fatty acid biosynthesis in the rat (116)185
—, see Rothblatt, G.H.
Krivtzov, V.F., see Stepanov, V.M.
Kröber, G., see Thiele, O.W.
Kröger, H.
—, Schuchmann, L., Petersen, E. and Hagen, U.
Studies on homopolymer synthesis with irradiated DNA in the RNA polymerase system (142)542
Krogmann, D.W., see Duane, Sr., W.C.; see Lightbody, J.J.; see Susor, W.A.
Krogstad, D.J.
— and Howland, J.L.
Role of menaquinone in Corynebacterium diphtheriae electron transport (118)189
Kronau, R., see Witt, I.
Kronman, M.J.
Fluorescence studies of the molecular conformation of α-lactalbumin (133)19
—, Holmes, L.G. and Robbins, F.M.
Inter- and intramolecular interactions of α-lactalbumin. VIII. The alkaline conformational change (133)46
—, Robbins, F.M. and Andreotti, R.E.
Reaction of N-bromosuccinimide with lysozyme (147)462
—, see Robbins, F.M.

Kroon, A.M.
Protein synthesis in mitochondria. III. On the effect of inhibitors on the incorporation of amino acids into protein by intact mitochondria and digitonin fractions (108)275
—, Saccone, C. and Botman, M.J.
RNA and protein synthesis by sterile rat-liver mitochondria (142)552
—, see Borst, P.; see Van Bruggen, E.F.J.
Krotoski, W.A.
— and Weimer, H.E.
Immunochemical properties of three enzymatically derived fractions from human plasma orosomucoid (133)278
Krsmanovic, V.
—, Kanazir, D. and Errera, M.
A DNA-pulse labelled RNA complex from HeLa cell nuclei (103)544
—, see Levis, A.G.
Krugman, L.G., see Rogeness, G.A.
Kruh, J.
Composition en bases des RNA's de réticulocytes de lapin (129)631;
Action des RNA's chauffés de réticulocytes et de foie sur la synthèse acellulaire de l'hémoglobine (145)814
— et Davydova, S.
Action de l'hydroxylamine sur la synthèse acellulaire de l'hémoglobine (129)395
—, Dreyfus, J.C. et Schapira, G.
Activation de la synthèse acellulaire de l'hémoglobine par RNA. IV. Action de fractions de RNA de noyaux de foie obtenues par centrifugation en gradient de saccharose (114)371
— et Lévy, F.
Inhibition de la synthèse acellulaire de l'hémoglobine par des fractions solubles de diverses espèces cellulaires (145)460
Krutilina, A.I., see Bayev, A.A.; see Grachev, M.A.; see Mirzabekov, A.D.
Kubicz, A., see Mejbaum-Katzenellenbogen, W.
Kubo, H., see Inoue, Y.
Kubo, K., see Hano, K.; see Yajima, H.
Kućan, Ž., see Pečevsky, I.
Kuchler, R.J.
The role of sodium and potassium in regulation amino acid accumulation and protein synthesis in LM-strain mouse fibroblasts (136)473
— and Marlowe-Kuchler, M.
The transport and accumulation of α-aminoisobutyric acid into L-strain mouse fibroblasts (102)226
Kuettner, K.E.
— and Lindenbaum, A.
Analysis of mucopolysaccharides in partially aqueous media (101)223;
Comparisons of galactosaminoglycans isolated from different regions of calf scapula cartilage (148)575
Kuhlmann, D.P., see Tomlinson, R.V.
Kujalová, V.
— and Mosinger, B.
Cold- and ouabain-sensitive uptake of glucose stimulated by insulin in incubated rat adipose tissue (127)255
—, see Mosinger, B.
Kulaev, I., see Ballio, A.
Kulka, R.G., see Marchaim, U.
Kulpina, L.M., see Nezlin, R.S.
Kumar, M.
—, Singh, V.N. and Chaikoff, I.L.
[^{14}C]Leucine incorporation into the diabetic rat-adrenal protein: Response to insulin (129)640
Kummerow, F.A., see Narayan, K.A.
Kun, E., see Blake, R.L.
Kunimitsu, D.K.
— and Yasunobu, K.T.
Chymopapain. IV. The chromatographic fractionation of partially purified chymopapain and the characterization of crystalline chymopapain B (139)405
Kunin, A.S.
— and Krane, S.M.
The effect of dietary phosphorus on the intermediary metabolism of epiphyseal cartilage from rachitic rats (107)203;
Utilization of citrate by epiphyseal cartilage of rachitic and normal rats (111)32
Künsch, U., see Temperli, A.
Kuntz, E., see Bishai, F.
Küntzel, H., see Gastambide-Odier, M.
Kunz, H.W., see Gill, III, T.J.
Kuo, J.F.
—, Dill, I.K. and Holmlund, C.E.
Inhibition by phlorizin of insulin- and protease-stimulated glucose utilization in isolated adipose cells (144)252;
Effects of arsenite on lipolysis and metabolism of glucose, palmitic acid and amino acids by isolated adipose cells (148)683
Kupiecki, F.P., see Schneider, W.P.
Kurahashi, K., see Abood, L.G.
Kurihara, K.
Isolation of chromoproteins from bovine olfactory tissues (148)328
—, see Aoyama, A.; see Hachimori, Y.
Kurumada, T.
— and Labbe, R.F.
Magnesium accumulation by liver mitochondria in experimental porphyria (111)558
—, see Labbe, R.F.
Kurylo-Borowska, Z.
— and Tatum, E.L.
Biosynthesis of edeine by Bacillus brevis Vm 4 in vivo and in vitro (114)206
Kusaka, I.
— and Kitahara, K.
Evidence for excretion of certain enzymes during growth of protoplasts of Bacillus megaterium (148)558
Kusunose, M., see Yano, I.
Kutz, D.I.
— and Sinex, F.M.
Age related differences in the association of brain DNA nuclear protein (145)840
Kutzbach, C.
— and Stokstad, E.L.R.
Feedback inhibition of methylene-tetrahydrofolate reductase in rat liver by S-adenosylmethionine (139)217
Kuwaki, T.
— and Mizuhara, S.
S-(1,2-Dicarboxyethyl)cysteine in urine and kidney (115)491
Kužela, Š., see Kováč, L.
Kuznetzov, Yu.S.
—, Kovaleva, G.G. and Stepanov, V.M.

Kuznetzov, Yu.S. (continued)
Arginine and lysine peptides of hog pepsin (118)219
Kuzuya, H., see Nagatsu, T.
Kwa, H.G.
—, Van der Bent, E.M., Feltkamp, C.A., Rümke, P. and Bloemendal, H.
Hormones from the anterior pituitary gland. I. Identification and isolation of growth hormone and prolactin from the "granular" fraction of bovine pituitary (111)447
—, Van der Bent, E.M. and Prop, F.J.A.
Studies on hormones from the anterior pituitary gland. II. Identification and isolation of prolactin from the "granular" fraction of transplanted rat pituitary tumours (133)301
— and Verhofstad, F.
Radioimmunoassay of rat prolactin (133)186
Kwon, T.W.
— and Olcott, H.S.
Reduction and modification of ferricytochrome c by malonaldehyde (130)528

L

Laatsch, R.H., see Holowach, J.
Labbe, P.
—, Volland, C. et Chaix, P.
A propos de la nature et du rôle d'un pigment absorbant à 503 mμ chez certaines levures (143)70
Labbe, R.F.
—, Kurumada, T. and Onisawa, J.
Role of succinyl-CoA synthetase in control of heme biosynthesis (111)403
—, see Kurumada, T.
Labella, F.S.
— and Vivian, S.
Amino acid composition of elastin in the developing human aorta (133)189
—, see Krass, M.E.
Laberge, S.P., see Fox, J.L.
Labeyrie, F.
—, Groudinsky, O., Jacquot-Armand, Y. et Naslin, L.
Propriétés d'un noyau cytochromique b_2 résultant d'une protéolyse de la L-lactate: cytochrome c oxydoréductase de la levure (128)492
—, see Watari, H.
Labhart, A., see Bürgi, H.; see Froesch, E.R.
Labie, D.
—, Schroeder, W.A. and Huisman, T.H.J.
The amino acid sequence of the δ-β chains of hemoglobin $Lepore_{Augusta}$ = $Lepore_{Washington}$ (127)428
Labouesse, B., see Lemaire, G.
Lăcătus, V., see Popa, L.
Lack, L.
— and Weiner, I.M.
The ileal bile salt transport system: Effect of the charged state of the substrate on activity (135)1065
Lacombe, G., see Thoai, N.V.
Lacour, F.
— et Harel, L.
Réaction des anticorps, anti conjugé AMP–sérum albumine bovine, avec les polynucléotides (103)358
—, see Nahon, E.
Lafarge, C., see De Recondo, A.M.
Lahrtz, H.G.
—, Lüllmann, H. and Van Zwieten, P.A.
Calcium transport in isolated guinea-pig atria during metabolic inhibition (135)701
Laing, R.R., see Hill, R.D.
Lakshmanan, M.R., see Permual, A.S.
Laland, S., see Holm, H.
Lamberts, B.L., see Meyer, T.S.
Lambooy, J.P., see Khafagy, E.Z.I.
Lameyer, L.D.F., see De Graeff, J.
Lami, H., see Wahl, P.
Lamm, M.E.
— and Small, Jr., P.A.
Covalent aggregation of rabbit immunoglobulin G and liberation of free H and L chains in the absence of exogenous reducing agents (133)519
Lamprecht, S.
—, Lindner, H.R., Rubin, M.B. and Zmigrod, A.
Conversion of 17 α-pregnenolone to 17 α-progesterone by rat ovarian homogenate (124)267
La Nauze, J.M.
— and Rosenberg, H.
The breakdown of aminoethylphosphonate by cell-free extracts of Bacillus cereus (148)811
—, see Rosenberg, H.
Lance, C., see Hobson, G.E.
Lancini, G.C.
— and Kluepfel, D., Lazzari, E. and Sartori, G.
Origin of the nitro group of azomycin (130)37
Lanclos, K., see Bresnick, E.
Landau, J.V.
Induction, transcription and translation in Escherichia coli: A hydrostatic pressure study (149)506
Lande, S., see Yajima, H.
Landin, R.M., see Moulé, Y.
Landman, M., see McKee, R.W.
Landon, E.J.
Interaction of mammalian kidney membrane and mitochondria in vitro (143)518
— and Myles, M.
NADH oxidation by hypoxanthine dehydrogenase of avian kidney (143)429
Lands, W.E.M., see Brandt, A.E.
Lane, B.G., see Diemer, J.; see Gray, M.W.; see Nichols, J.L.
Lane, M.D., see Hegre, C.S.
Laney, R.P., see Niedermeier, W.
Lange, Jr., C.F.
— and Markowitz, A.S.
Chemistry of whole human glomerular basement membranes and of a soluble fraction prepared by trypsinization (101)217
Lange, R.D., see Lewis, J.P.
Lange, R.J.C., see DeVenuto, F.
Langeluttig, S.G., see Adamson, L.F.
Langendorff, H.-U., see Streffer, C.
Lapetina, E.G.
—, Soto, E.F. and De Robertis, E.
Gangliosides and acetylcholinesterase in isolated membranes of the rat-brain cortex (135)33
Lapidot, A.
— and Samuel, D.
Mechanism of hydrolysis of N-phosphorylcreatine (111)537
Lapidot, Y.
—, De Groot, N. and Fry-Shafrir, I.
Modified aminoacyl-tRNA. II. A general method for the preparation of acylaminoacyl-tRNA (145)292
—, De Groot, N., Rappoport, S. and Hamburger, A.D.
Modified aminoacyl-tRNA. III. A general procedure for the synthesis of dipeptidyl-tRNA (149)532
—, De Groot, N., Weiss, M., Peled, R. and Wolman, Y.

Lapidot, Y. (continued)
The synthesis of glycyl-L-phenylalanyl-sRNA (138)241
Lapresle, C., see Rangel, H.
Laris, P.C., see Hobson, J.D.
Lark, C.
Regulation of DNA synthesis in Escherichia coli: Dependence on growth rates (119)517
Lark, K.G., see Soška, J.
Larner, J., see Goldberg, N.D.
Larsen, Ch.J., see Galibert, F.
Larsen, P.O.
Occurrence of p-hydroxybenzylamine in white mustard (Sinapsis alba L.) (107)134;
m-Carboxy-substituted aromatic amino acids in plant metabolism. II. The incorporation of shikimic acid into L-3-(3-carboxy-4-hydroxyphenyl)alanine in Reseda lutea L. (115)529;
m-Carboxy-substituted aromatic amino acids in plant metabolism. III (141)27
—, see Gmelin, R.
Larson, B.L., see Groves, T.D.D.; see Schingoethe, J.
Larsson, A.
— and Reichard, P.
Allosteric effects and substrate specificity of the ribonucleotide diphosphate reductase system from Escherichia coli (113)407
Larsson-Raźnikiewicz, M.
Kinetic studies on the reaction catalyzed by phosphoglycerate kinase. II. The kinetic relationships between 3-phosphoglycerate, $MgATP^{2-}$ and activating metal ion (132)33
Laskowski, Sr., M., see Miech, R.P.
Lassen, U.V.
Hypoxanthine transport in human erythrocytes (135)146
Last, J.A.
—, Izaki, K. and Snell, J.F.
The failure of tetracycline to bind to Escherichia coli ribosome (103)532
Latałło, Z.S., see Budzyński, A.Z.
Laudelout, H., see Fischer, I.; see Van Gool, A.
Läuger, P.
—, Lesslauer, W., Marti, E. and Richter, J.
Electrical properties of bimolecular phospholipid membranes (135)20
Laurent, G., see Marriq, C.
Laurent, T.C.
Determination of the structure of agarose gels by gel chromatography (136)199
— and Granath, K.A.
Fractionation of dextran and Ficoll by chromatography on Sephadex G-200 (136)191
— and Persson, H.
A study of micelles of sodium taurodeoxycholate in the ultracentrifuge (106)616
—, see Blombäck, B.; see Iverius, P.H.
Laursen, R.A., see Gerzon, K.; see Michelson, A.M.
Lauterbach, F.
Beziehungen zwischen enteraler Resorption aktiv transportierter sowie diffundierender Substanzen und Konzentration sowie Transport von Na^+ (135)256;
Die Wirkung cardiotoner Steroide auf die enterale Resorption aktiv transportierter und diffundierender Substanzen und auf deren Beziehung zu Na^+-Konzentration und Na^+-Transport (135)273
La Via, M., see Baglioni, C.
Lawrence, J.C., see Carney, S.A.
Lazarus, L.H.
— and Scherbaum, O.H.
Isolation and specificity of the intracellular ribonuclease from Tetrahymena pyriformis (142)368
Lazdunski, C.
— et Lazdunski, M.
Etude cinétique du mécanisme d'action catalytique de la phosphatase alcaline d'Escherichia coli (113)551;
Les isophosphatases alcalines d'Escherichia coli. Séparation, propriétés cinétiques et structurales (147)280
Lazdunski, M.
— et Delaage, M.
Sur la morphologie des trypsines de porc et de boeuf. Etude des dénaturations réversibles (105)541;
Etude structurale du trypsinogène et de la trypsine. Les diagrammes d'état (140)417
—, see Delaage, M.; see Lazdunski, C.
Lazzari, E., see Lancini, G.C.
Leaf, A., see De Graeff, J.; see Sharp, G.W.G.
Lebleu, B.
—, Huez, G., Burny, A. and Marbaix, G.
Evidence for a NaF-resistant association between mRNA and ribosomes in rabbit reticulocytes (138)186
—, see Huez, G.
Leblus, R.G., see Briquet, M.V.
Le Bras, G., see Patte, J.C.; see Truffa-Bachi, P.
Le Breton, E., see De Recondo, A.M.
Lecocq, R.E.
— and Dumont, J.E.
Polysomes from thyroids incubated in vitro (129)421
Lederer, E., see Villanueva, V.R.
Lederman, M.
— and Zubay, G.
DNA-directed peptide synthesis. I. A comparison of T_2 and Escherichia coli DNA-directed peptide synthesis in two cell-free systems (149)253
Ledoux, L.
— and Huart, R.
The fate of exogenous DNA in living organisms. I. Translocation of DNA in germinating barley (134)209
—, see Sempińska, E.
Lee, C.-P.
—, Simard-Duquesne, N., Ernster, L. and Hoberman, H.D.
Stereochemistry of hydrogen-transfer in the energy-linked pyridine nucleotide transhydrogenase and related reactions (105)397
Lee, G.R., see Lewis, M.
Lee, I.Y.
— and Coe, E.L.
Theoretical phosphorylation rates after addition of a small amount of glucose to intact ascites tumor cells (131)441
Lee, J.K.-H.
— and Stiller, M.
Hydrogenase activity in cell-free preparation of Chlorella (132)503
Lee, K.D., see Sobel, H.

Lee, K.L., see Sellinger, O.Z.
Lee, L.P.K.
— and Kosicki, G.W.
Citrate synthase interaction with polyphosphate derivatives (139)195
Lee, L.T., see Danon, D.
Lee, R.F., see Abbott, M.T.
Leech, R.M., see Bucke, C.
Lees, A.M.
— and Korn, E.D.
Separation of positional isomers of long-chain unsaturated fatty acid methyl esters by thin-layer chromatography and presence of mono-trans, di-cis isomers in commercial linolenic acid (116)403
Lees, H.
The influence of pH on the effects in vitro of some organic cations and anions on oxidative phosphorylation (105)187;
The effects of laurylamine on respiration and related reactions on liver mitochondria in vitro (131)310
— and Loncharich, K.
The influence of pH on the effects in vitro of some organic cations and anions on mitochondrial respiration (113)181
Leevy, C.M., see Cherrick, G.R.
LeFevre, P.G.
The "dimeriser" hypothesis for sugar permeation through red cell membrane: Reinvestigation of original evidence (120)395
Le Gal, Y.
—, Hedgaard, J. et Roche, J.
Activité de donateurs d'azota des dérivés forminiés au cours de la biosynthèse des purines chez Escherichia coli B (149)325
Legault-Démare, J., see Heyman, T.
Lehmann, H., see Konigsberg, W.; see Sick, K.
Lehnert, S.
— and Okada, S.
Cesium chloride density gradient studies of nuclear proteins. Studies with control and irradiated nuclei (109)557
Leloir, L.F., see Zancan, G.T.
Lelong, J.C., see Galibert, F.
Le Mahieu, M., see Mueller, G.C.
Lemaire, G.
—, Dorizzi, M. et Labouesse, B.
Interaction entre la tryptophane–tRNA synthétase et le tryptophane ou certains analogues du tryptophane (132)155
LeMaitre, D.A., see Malt, R.A.
Lemasson, C., see Gingras, G.
Lemberg, R.
— and Gilmour, M.V.
Cytochrome oxidase and its derivatives. VIII. Formation and properties of the "oxygenated" form of cytochrome oxidase and its reconversion to ferrous and ferric oxidase (143)500
— and Mansley, G.E.
Cytochrome oxidase and its derivatives. V. The reaction of ferrous cytochrome c oxidase with oxygen and hydrogen peroxide in the presence of sodium dithionite (118)19
— and Stanbury, J.
Cytochrome oxidase and its derivatives. VII. Further observations on the compound formed by the reaction of ferrous cytochrome c oxidase with oxygen and hydrogen peroxide and on its reactions (143)37
— and Velins, A.
The combination of formyl-substituted haemins with nitrogenous ligands (104)487
—, see Gilmour, M.V.; see Mansley, G.E.
Lemoine, F., see Waller, J.-P.
Lemonde, A., see Chaudhary, K.D.
Lengyel, P., see Klein, A.
Leonard, K.R.
— and Walker, I.O.
Circular dichroism and Cotton effects in the near-ultraviolet spectral region of aldolase (133)366
Leonard, N.J., see Gerzon, K.; see Michelson, A.M.
Leonard, R.J., see Bloch, A.
Leone, E., see Forlani, L.
Leopold, G., see Kersten, H.
Le Pecq, J.B.
—, Jeanteur, P., Emanoil-Ravicovitch, R. and Paoletti, C.
A spectrofluorometric method for the study of transcription of single-stranded DNA by RNA polymerase (119)442
Lerner, J.
— and Taylor, M.W.
A common step in the intestinal absorption mechanisms of D- and L-methionine (135)991
Leslie, R.B.
—, Chapman, D. and Hart, C.J.
Physical studies of phospholipids. VII. The direct-current electrical conductivity properties of some membrane phospholipids (135)797
Lesslauer, W., see Läuger, P.
Letters, R.
Phospholipids of yeast. II. Extraction, isolation and characterisation of yeast phospholipids (116)489
— and Brown, B.
Phospholipids of yeast. I. Improvements in analysis by two-dimensional strip-transfer paper chromatography (116)482
Leuthardt, F., see Hatz, C.
Levenberg, B.
— and Kaczmarek, D.K.
Enzymic release of carbon atom 8 from guanosine triphosphate, an early reaction in the conversion of purines to pteridines (117)272
Leventer, L.L.
—, Buchanan, J.L., Ross, J.E. and Tapley, D.F.
Solubilization of N-glucuronyl transferase (110)428
Leveson, J.E.
— and Peacocke, A.R.
Studies on a complex of DNA with non-histone protein (123)329;
Complexes of non-histone protein in calf thymus chromatin (149)311
Levi-Montalcini, R., see Angeletti, P.
Levin, A.P.
Alteration of repression in purine biosynthesis (138)221
Levin, B., see Mazelis, M.
Levin, E.D., see Stepanov, V.M.
Levin, E.Y.
The conversion of protohemochrome to verdohemochrome with liver homogenates (136)155
Levine, A.S., see Figard, P.H.

Levine, M.
—, Oxender, D.L. and Stein, W.D.
The substrate-facilitated transport of the glucose carrier across the human erythrocyte membrane (109)151
— and Stein, W.D.
The kinetic parameters of the monosaccharide transfer system of the human erythrocyte (127)179;
Techniques for analysis of glucose binding by human erythrocyte membranes (135)710
Levine, P.T., see Glimcher, M.J.
Levine, R., see Penhos, J.C.
Levinson, C.
Phosphate partition and transport in the Ehrlich mouse ascites tumor cell (120)292;
Calcium exchange in Ehrlich mouse ascites tumor cells (135)921
— and Hempling, H.G.
The role of ion transport in the regulation of respiration in the Ehrlich mouse ascites tumor cell (135)306
Levis, A.G.
—, Krsmanovic, V. and Errera, M.
A rapidly labelled RNA associated with DNA in HeLa cells (145)577
Levitz, M., see Jirku, H.
Levvy, G.A.
—, Conchie, J. and Hay, A.J.
The heterogeneity of ovalbumin glycopeptide (130)150
—, see Snaith, S.M.
Lévy, F., see Kruh, J.
Levy, H.R., see Howanitz, P.J.
Levy, J.A., see Rosenkranz, H.S.
Lévy, M.
—, Toury, R. et André, J.
Séparation des membranes mitochondriales. Purification et caractérisation enzymatique de la membrane externe (135)599
Lew, V.L.
— and Carlisky, N.J.
Evidence for a special type of bicarbonate transport in the isolated colonic mucosa of Bufo arenarum (135)793
Lewin, S.
— and Munroe, D.P.
Application of the hydrophilic theory to collation of absorbance, melting temperature and optical rotation changes of salmon-sperm DNA (114)637
Lewinsohn, R.
—, Paecht-Horowitz, M. and Katchalsky, A.
Polycondensation of amino acid phosphoanhydrides. III. Polycondensation of alanyl adenylate (140)24
Lewis, J., see Chang, T.
Lewis, J.P.
—, Gallagher, N.I., Carmody, S.E. and Lange, R.D.
Erythropoietin activity and protein–protein interactions in human urine (104)218
Lewis, M.
—, Lee, G.R., Cartwright, G.E. and Wintrobe, M.M.
Glycine decarboxylation in the porcine erythrocyte: Its relation to aminolevulinic acid synthesis (141)296
Lewis, R.G., see Kitto, G.B.
Li, C.H., see Bewly, T.A.; see Blake, J.; see Chung, D.; see Lohmar, P.
Li, L.
— and Umbreit, W.W.
Relationship between ribosomal activity and age of culture in Escherichia coli (119)392
—, see Bayev, A.A.
Liang, C.R.
— and Rosenberg, H.
The biosynthesis of the phosphonic analogue of cephalin in Tetrahymena (125)548
Liang, M., see Christensen, H.N.
Libano, W.Y., see Williams, V.R.
Libor, S.
—, Elödi, P. and Nagy, Z.
Structural investigations on dehydrogenases by means of difference spectrophotometry (110)484
Lichtenstein, A.V.
—, Piker, E.G. and Shapot, V.S.
Fractionation of nuclear RNA's from tumor and homologous tissue on methylated albumin column by use of salt and temperature gradients (138)441
Lichtenstein, N., see Davidov, E.; see Rand-Meir, T.
Lichtenstein, N.S., see Sharp, G.W.G.
Lichtman, H.C., see Feldman, F.
Lieberman, I., see Chaudhuri, S.; see Higashino, K.
Liener, I.E., see Takahashi, T.
Liersch, M., see Grunicke, H.
Lifschitz, M.D., see Kayne, H.L.
Light, R.J., see Harris, T.M.
Lightbody, J.J.
— and Krogmann, D.W.
The role of plastoquinone in the photosynthetic reactions of Anabaena variabilis (120)57;
Isolation and properties of plastocyanin from Anabaena variabilis (131)508
Lim, C., see Loo, T.L.
Limbosch-Rolin, S., see Heilporn-Pohl, V.
Lin, H.J.
— and Chargaff, E.
On the denaturation of DNA (123)66;
On the denaturation of DNA. II. Effects of concentration (145)398
—, see Rudner, R.
Lin, Y.-C., see Campbell, B.J.
Lindahl, U.
The structures of xylosylserine and galactosylxylosylserine from heparin (130)361;
Further characterization of the heparin–protein linkage region (130)368
Lindberg, T., see Josefsson, L.
Lindenbaum, A., see Jibril, A.O.; see Kuettner, K.E.
Linder, C., see Migliorini, R.H.
Lindgren, F.T., see Lossow, W.J.
Lindigkeit, R.
— and Handschack, W.
Some properties of RNA obtained from ribosomal precursors of E. coli (103)241
Lindner, H.R., see Lamprecht, S.
Lindskog, S.
A spectropolarimetric investigation of bovine cobalt carbonic anhydrase (122)534
Lindstedt, G.
Effect of metal ions on the hydroxylation of γ-butyrobetaine to carnitine in rat liver

homogenates (141)492
Lingens, F.
—, Eberhardt, H. und Oltmanns, O.
Mikrobieller Abbau des Chloramphenicols (130)345
— und Goebel, W.
Nachweis von 3,3-Diindolyl-(3)-propandiol-(1,2) und 2-Oxo-3-indolyl-(3)-propanol-(1) und ihrer Phosphorsäure ester bei Tryptophanmangelmutanten von Saccharomyces cerevisiae (107)183;
Zur Biosynthese des Tryptophans in Saccharomyces cerevisiae. I. Nachweis von bekannten und unbekannten Akkumulaten bei verschiedenartig blockierten trp⁻-Mutanten (148)60;
Zur Biosynthese des Tryptophans in Saccharomyces cerevisiae. II. Uber die Konstitution unbekannter Akkumulate bei trp⁻-Mutanten (148)70
— und Oltmanns, O.
Isolierung und Charakterisierung eines Chloramphenicol-abbauenden Bakteriums (130)336
— und Schneider-Bernlöhr, H.
Uber die Wirkung von Hydrazin und methylsubstituierten Hydrazinen auf Nucleoside, Nucleotide und RNA (123)611
—, Sprössler, B. und Goebel, W.
Zur Biosynthese der Anthranilsäure in Saccharomyces cerevisiae (121)164
Lingrel, J.B.
Studies on the rapidly labeled RNA of rabbit bone marrow cells (142)75
—, see Drach, J.C.
Linnane, A.W., see Huang, M.
Linzen, B., see Wyatt, G.R.
Lionetti, F.J.
— and Fortier, N.L.
Metabolism of deoxyinosine by human erythrocyte ghosts (119)462
Lippe, C.
— and Giordana, B.
Effects of Amphotericin B on the permeability of small and large intestine of Testudo hermanni (135)966
Lippel, K.
— and Olson, J.A.
The activity of non-lipolytic digestive enzymes of the pancreas in the presence of conjugated bile salts (127)243
Lippman, E., see Bartnicki-Garcia, S.
Lipson, M.J.
— and Silbert, J.E.
Acid mucopolysaccharides of tadpole tail fin and backskin (101)279
Lisio, A.L.
— and Weissbach, A.
Localization of [^{14}C]porfiromycin in Escherichia coli and λ phage (107)215
Lisowska, E.
— and Dobryszycka, W.
Effect of degradation on chemical and biological properties of haptoglobin. II. Cleavage of disulphide bonds (133)338
—, see Dobryszycka, W.
Lisowski, J.
5'-Ribonucleotide phosphohydrolase from bovine pituitary gland (113)321
Liss, M. and Maxam, A.M., (140)555
Lissitzky, L., see Cartouzou, G.
Lissitzky, S.
—, Rolland, M. et Bergot, J.
Données sur la structure de la thyroglobuline de mouton (111)543
List, C.F., see James, A.M.
Lisý, V., see Smrt, J.
Littauer, U.Z., see Katchalski, E.
Little, A.B., see Billiar, R.B.
Littlefield, J.W.
The periodic synthesis of thymidine kinase in mouse fibroblasts (114)398
— and Jacobs, P.S.
Relation between DNA and protein synthesis in mouse fibroblasts (108)652
Litwack, G.
—, Fiala, E.S. and Filosa, R.J.
Intracellular binding of [^{14}C]hydrocortisone prior to enzymatic induction (111)569
—, Sears-Gessel, M.L. and Winicov, I.
Inhibition of tyrosine aminotransferase activity by low concentrations of urea (118)351
—, Winicov, I. and Squires, J.M.
The effects of pH on the rat liver tyrosine aminotransferase system (128)404
—, see Fiala, E.S.
Livanova, N.B., see Torchinsky, Yu.M.
Ljunggren, J-G.
Formation of thyroxine from diiodotyrosine in the presence of horseradish peroxidase and hydrogen peroxide (107)434;
The catalytic effect of peroxidases on the iodination of tyrosine in the presence of hydrogen peroxide (113)71
Lloyd, D.
Respiratory control in mitochondria isolated from the colourless alga, Prototheca zopfii (110)425
Lloyd Davies, H., see Nillson, A.
Lockshin, A.
— and Burris, R.H.
Inhibitors of nitrogen fixation in extracts from Clostridium pasteurianum (111)1
Lockwood, D.H.
—, Turkington, R.W. and Topper, Y.J.
Hormone-dependent development of milk protein synthesis in mammary gland in vitro (130)493
—, see Turkington, R.W.
Loeb, J.E.
Fractionnement de la chromatine par centrifugation sur gradient de saccharose (145)427
Loeblich, III, A.R., see Patton, S.
Loewenstein, W.R., see Politoff, A.
Loffet, A., see Alderweireldt, F.; see Jadot, J.
Lofrumento, N.E., see Papa, S.
Loftfield, R.B.
— and Eigner, E.A.
The specificity of enzymic reactions. Aminoacyl-sRNA ligases (130)426;
The preparation of pure 1-^{14}C- and 1-^{3}H-labeled L-amino acids (130)449
Lohmar, P.
— and Li, C.H.
Isolation of bovine β-lipotropic hormone (147)381
Lohrmann Nilsen, A., see Schultz-Haudt, S.D.
Loiselet, J.
— and Chatagner, F.

Loiselet, J. (continued)
Amino acid composition of "ethionine-induced" cystathionase of rat liver (130)180
Loncharich, K., see Lees, H.
London, D.R.
— and Segal, S.
Differences in the uptake and efflux of two non-utilizable amino acids, α-aminoisobutyric acid and L-aminocyclopentane carboxylic acid, by the "cut" rat diaphragm (135)179
London, J.
Changes in NAD concentration of Bacillus cereus during growth (124)241
Longworth, J.W.
— and Rahn, R.O.
Energy transfer in poly-L-tyrosine as a function of the degree of ionization of the phenolic hydroxyls. I. Room temperature fluorescence of model compounds and poly-L-tyrosine (147)526
Loo, T.L.
—, Lim, C. and Johns, D.G.
Enzymic hydroxylation of 6-methylthiopurine by hepatic aldehyde oxidase (134)467
Looney, F.D., see Johns, R.B.; see King, N.K.
Loos, J.A.
—, Zürcher, C. and Prins, H.K.
A comparative study on the carbohydrate metabolism of glutathione-deficient, glucose-6-phosphate dehydrogenase-deficient and normal human red cells (121)187
Lorand, L., see Konishi, K.
Lord, R.C.
— and Thomas, Jr., G.J.
Raman studies of nucleic acids. II. Aqueous purine and pyrimidine mixtures (142)1
Loriette, C., see Raulin, J.
Lorini, M.
—, Pinna, L.A., Moret, V. and Siliprandi, N.
Localization of mitochondrial phosvitin kinase (110)636
—, see Moret, V.; see Pinna, L.A.
Losada, M.
— and Paneque, A.
Light reduction of nitrate by chloroplasts depending on ferredoxin and NAD^+ (126)578
—, Ramîrez, J.M., Paneque, A. and Del Campo, F.F.
Light and dark reduction of nitrate in a reconstituted chloroplast system (109)86
—, see Paneque, A.; see Ramîrez, J.M.
Losito, R.
—, Millar, G.J. and Jaques, L.B.
Isolation and partial identification of [^{14}C]-vitamin K_3 metabolites from the bile of the dog (107)123
Lossow, W.J.
—, Lindgren, F.T. and Jensen, L.C.
Net uptake of rat serum protein by $S_f > 400$ lymph chylomicrons in vitro (144)670
—, Shah, S.N. and Chaikoff. I.L.
Isolation of cholesterol-esterifying activity in rat serum by ultracentrifugal flotation (116)172
—, see Pokrajac, N.; see Shyamala, G.
Lou, M.F.
— and Herrmann, R.L.
A pyrimidine-specific carbamate kinase in Neurospora (139)199
— and Kinoshita, J.H.
Control of lens glycolysis (141)547
—, see Hayman, S.; see Herrmann, R.L.
Loukopoulos, D., see Fessas, P.
Lovig, C.A., see Bottomley, R.H.
Lowe, P.A., see Johnston, J.M.
Lowry, R.R.
— and Tinsley, I.J.
Interactions in the metabolism of polyunsaturated fatty acids (116)398
Lowther, D.A., see Toole, B.P.
Lowy, B.A.
— and Williams, M.K.
The non-inhibitory effect of actinomycin D on purine nucleotide formation in rabbit reticulocytes and erythrocytes (108)704
Lubas, B.
— and Wilczok, T.
Spin-echo technique study of the non-rotational hydration of DNA (120)427
Lubash, G.D.
— and Peart, W.S.
Purification of human renin (122)289
—, see Peart, W.S.
Lucács, I.
— and Sekeris, C.E.
On the mechanism of hormone action. IX. Stimulation of RNA polymerase action of rat liver nuclei by cortisol in vitro (134)85
Lucas-Lenard, J.M.
— and Cohen, S.S.
The inhibition of polynucleotide phosphorylase by certain substrate analogues (123)471
Luccioni, F., see Marriq, C.
Luchelli, M., see Portela, A.
Ludlum, D.B.
Methylation and secondary structure of polyadenylic acid (119)630;
Reaction of nitrogen mustard with synthetic polynucleotides (142)282
Luebke, R.G., see Klebanoff, S.J.
Lukanidin, E.M., see Samarina, O.P.
Lukton, A., see Bailin, G.; see Flashner, M.
Lüllmann, H., see Lahrtz, H.G.
Lumper, L., see Zahn, H.
Lundberg, H., see Öckerman, P.A.
Lundblad, A.
Isolation of fucose-rich glycopeptides from normal urine (101)46;
Ultrafilterable non-dialyzable fucose-rich glycopeptide fraction in normal human urine (101)177;
Excretion of oligosaccharides in the urine of secretors and non-secretors belonging to different blood groups (130)130;
Two urinary oligosaccharides characteristic of A_1 and B secretors: Isolation and partial characterization (148)151
— and Berggård, I.
Isolation and characterization of urinary A and B agglutinogen fractions (148)146
Lundin, L.G.
— and Allison, A.C.
Acid phosphatases from different organs and animal forms compared by starch-gel electrophoresis (127)527
Lünzmann, G., see Schramm, G.
Lupo, M., see Halpern, Y.S.

Luse, S.A., see Kinsky, S.C.
Lush, I.E.
— and Conchie, J.
Glycosidases in the egg albumen of the hen, the turkey and the Japanese quail (130)81
Luukkainen, T.
— and Adlercreutz, G.
Isolation and identification of 11-dehydroestradiol-17α, a new type of urinary steroid, in the urine of pregnant women (107)579
Lux, S.E., see Moore, H.C.
Luxoro, M.
— and Rissetti, S.
Calcium efflux in giant axons (135)368
Luzzati, D., see Bach, M.-L.
Luzzatto, L.
Regulation of the activity of glucose-6-phosphate dehydrogenase by $NADP^+$ and NADPH (146)18
—, Banks, J. and Marks, P.A.
Protein synthesis in erythroid cells. III. Monoribosome and polyribosome function in the cell-free system (108)434
Lyman, R.L.
—, Tinoco, J., Bouchard, P., Sheehan, G., Ostwald, R. and Miljanich, P.
Sex differences in the metabolism of phosphatidyl cholines in rat liver (137)107
Lynch, V.H.
— and Gillmor, R.G.
Utilization of glutamine and glutamic acid by Chlorella pyrenoidosa (115)253
—, see Ammann, E.C.B.
Lyndon, R.F.
Intracellular distribution of ribonuclease activity in pea roots (113)110
Lynn, K.R.
Some properties and purifications of urease (146)205
Lynn, W.S.
— and Brown, R.H.
Efficiency of energy conservation in oxidative phosphorylation (105)15;
Role of anions in mitochondrial swelling and contraction (110)445;
Cation exchange and oxidative phosphorylation in mitochondria (110)459
—, see Gutman, A.
Lyon, I.
Studies on transmural potentials in vitro in relation to intestinal absorption. IV. Phlorizin–sugar interactions in rat gut (135)496
— and Crane, R.K.
Studies on transmural potentials in vitro in relation to intestinal absorption. I. Apparent Michaelis constants for Na^+-dependent sugar transport (112)278;
Studies on in vitro transmural potentials in relation to intestinal absorption. II. An effect of ouabain on glucose-dependent increment of transmural potential of rat small intestine (126)146;
Studies on in vitro transmural potentials in relation to intestinal absorption. III. K^+ inhibition of Na^+-dependent transmural potential of rat small intestine (135)61
Lyons, J.W.
— and Siebenthal, C.D.
On the binding of condensed phosphates by proteins (120)174
Lyttleton, J.W.
Isolation of polyribosomes from leaves of Chenopodium album (149)598

M

McAuslan, B.R., see Eron, L.J.; see Kates, J.R.
McCalla, D.R.
Isolation and properties of an Euglena mutant resistant to the killing and bleaching effects of N-methyl-N'-nitro-N-nitroso-guanidine and some other agents (142)219
McCarl, R., see Harary, I.
McCarter, J.A., see Ball, J.K.
McCartey, R.D., see Dimick, P.S.
McCarthy, B.J., see McConaughy, B.L.; see Smith, K.D.
McCarthy, C.F., see Austad, W.
McCarthy, J.L., see Guerra, F.; see Péron, F.G.
McCaslin, A.J., see Parkins, F.M.
McCaughey, W.F., see Wyckoff, R.W.G.
Macchia, V., see Nunez, J.
McCloskey, J.A., see Hanessian, S.
McCluer, R.H., see Penick, R.J.
McConaughy, B.L.
— and McCarthy, B.J.
The interaction of oligonucleotides with denatured DNA (149)180
McConnell, D.G., see MacLennan, D.H.
McCormick, D.B., see Chassy, B.M.; see Roth, J.A.; see Sigel, H.; see Yang, C.S.
McCoy, E., see Ebadi, M.
McCree, K.J.
Photoconduction and photosynthesis. I. The photoconductivity of chlorophyll monolayers (102)90;
Photoconduction and photosynthesis. II. Photoconduction in wet materials by the condenser method (102)96
McCubbin, W.D.
— Kay, C.M. and Oikawa, K.
Polarimetric studies on the interaction of muscle proteins with ionic detergents (126)597
McDaniel, D., see Murashige, K.
McDaniel, R.G., see Sarkissian, I.V.
McDougal, Jr., D.B., see Holowack, J.
MacDougall, S., see Sick, K.
Macey, R.I.
— and Tolberg, A.B.
Photometric determination of cell permeability at constant volume (120)104
—, see Tolberg, A.B.
McFadden, B.A., see Shiio, I.
McGuire, W.L., see O'Malley, B.W.
Mach, B.
— and Slayman, C.W.
Mode of action of tyrocidine on Neurospora (124)351
Machiz, J., see Nair, P.P.
Macholán, L.
—, Rozprimová, L. and Sedláčková, E.
1,4-Diamino-2-butanon (2-ketoputrescine) as strong and short actin competitive inhibitor of diamine oxidase (132)505;
Oxidative deamination of 2-hydroxy derivatives of putrescine and cadaverine by pea-seedling and pig-kidney diamine oxidase (136)258
McIlreavy, D.J.
— and Midgley, J.E.M.
The chemical structure of bacterial rRNA. I. Terminal nucleotide sequences of Escherichia coli rRNA (142)47
—, see Midgley, J.E.M.
McIlwain, H., see Tobin, R.B.
Macindoe, H., see Reisner, A.H.
McIndoe, W.
— and Munro, H.N.
Species of RNA from liver cell fractions separated on agarose gels (134)458
McIntosh, D.J., see Williams, M.A.
McIntosh, J.E.A.
— and Boursnell, J.C.
Studies on boar seminal plasma proteins. VI. Carbohydrates and amino acids of the glycoprotein ("Fraction A Dial") from boar seminal plasma (130)252
McIvor, R.A., see Purdie, J.E.
McKay, R., see Duke, J.A.
McKee, R.W.
—, Wong, W. and Landman, M.
Effects of iodoacetate on glycolysis and respiration in Ehrlich–Lettré ascites carcinoma cells (105)410
McKenna, J.M.
— and Bishop, N.I.
Studies on the photooxidation of manganese by isolated chloroplasts (131)339
McKenzie, H.A.
—, Sawyer, W.H. and Smith, M.B.
Optical rotatory dispersion and sedimentation in the study of association–dissociation: Bovine β-lactoglobulins near pH 5 (147)73
—, see Armstrong, J. McD.; see Bell, K.
McKerns, K.W.
Hormone regulation of the genetic potential through the pentose phosphate pathway (121)207
— and Nordstrand, E.
Stimulation of rat ovary by gonadotropins and separation of steroids by gas chromatography (104)237
—, see Gilmour, K.E.
Mackie, I.M.
The effect of ATP, PP_i and inorganic tripolyphosphate on the stability of cod myosin (115)160
Mackinlay, A.G.
—, Hill, R.J. and Wake, R.G.
The action of rennin on κ-casein: The heterogeneity and origin of the insoluble products (115)103
— and Wake, R.G.
Fractionation of S-carboxymethyl-κ-casein and characterization of the components (104)167
—, see Armstrong, C.E.
Mackler, B., see Palmer, G.
McLaughlin, C.S.
— and Ingram, V.M.

Sequence variation at the 5'-terminal region in yeast sRNA (103)344
McLennan, B., see Diemer, J.
MacLennan, D.H.
—, Tzagoloff, A. and McConnell, D.G.
The preparation of microsomal electron-transfer complexes (131)59
McLennan, J.
— and Karasek, M.
Incorporation of proline and conversion to hydroxyproline in newborn-mouse skin (117)184
McLeod, M.E.
— and Bressler, R.
Some aspects of phospholipid metabolism in the red cell (144)391
MacLeod, R.M.
— and Huang, S.C.
Properties of a ribonucleate 2'-nucleotido-hydrolase in a mouse lymphosarcoma (149)12
Maclosky, E.R., see Jacobs, N.J.
McManus, I.R.
—, Brotsky, E. and Olson, R.E.
The origin of ethanol in mammalian tissues (121)167
McMullan, K.B., see De Koning, A.J.
MacPherson, A.
— and Murray, K.
Sub-fractionation of histones by zone electrophoresis in polyacrylamide gels (104)574
McQueen, J.D., see Mego, J.L.
McQuillan, M.T., see Jablonski, P.; see Menzies, C.A.
MacWilliam, I.C., see Harris, G.
Maddaiah, V.T.
— and Madsen, N.B.
Studies on the biological control of glycogen metabolism in liver. I. State and activity pattern of glycogen phosphorylase (121)261
Maddy, A.H.
Properties of the protein of the plasma membrane of ox erythrocytes (117)193
Madelay, J.R., see Kates, M.
Madhusudanan Nair, P.
— and Vaidyanathan, C.S.
Anthranilic acid hydroxylase from Tecoma stans (110)521
Madison, J.T.
—, Holley, R.W., Poucher, J.S. and Connett, P.H.
Use of polynucleotide phosphorylase in sequence determination of oligonucleotides (145)825
Madix, J.C., see Bresnick, E.
Madsen, N.B., see Maddaiah, V.T.
Maeda, H.
— and Ishida, N.
Conformational study of antitumor proteins. Neocarzinostatin and a deaminated derivative (147)597
Maeda, T., see Akaboshi, M.
Maeda, Y., see Ishigami, M.
Maes, A.A., see Orlando, J.A.
Maes, R.
—, Sedwick, W. and Vaheri, A.
Interaction between DEAE-dextran and nucleic acids (134)269
Mage, M.G., see Harrison, E.T.
Magee, P.N., see Craddock, V.M.
Mager, H.I.X.
— and Berends, W.
The structure of transient hydroperoxides in the autoxidation of reduced flavins (118)440
Mager, J.
—, Hershko, A., Zeitlin-Beck, R., Shoshani, T. and Razin, A.
Turnover of purine nucleotides in rabbit erythrocytes. I. Studies in vivo (149)50
—, see Condrea, E.; see Hershko, A.
Maggio, R.
Some properties of isolated nucleoli from guinea-pig liver (119)641
—, see Siekevitz, P.
Magree, L., see Henninger, M.D.
Mahapatra, G.N., see Friedman, O.M.
Maheshwari, S.C.
—, Guha, S. and Gupta, S.
Effect of indoleacetic acid on the incorporation of [^{32}P]orthophosphate and [^{14}C]adenine into plant nuclei in vitro (117)470
Mahoney, C.P.
— and Igo, R.P.
Studies of the biosynthesis of thyroxine. II. Solubilization and characterization of an iodide from thyroid tissue (113)507
Maier, G.D.
— and Morgan, W.S.
Purification of hog renin by column chromatography (128)193
Mainster, M.A.
— and Memory, J.D.
Superdelocalizability indices and the Pullman theory of chemical carcinogenesis (148)605
Makler, M., see Hsia, D.Y.Y.
Malamed, S.
— and Weissman, J.
Failure of certain inhibitors to prevent absorbance decreases of mitochondrial suspensions induced by hypotonicity and carbon tetrachloride (128)181
Malathi, K.
—, Padmanaban, G., Rao, S.L.N. and Sarma, P.S.
Studies on the biosynthesis of β-N-oxalyl-L-α,β-diaminopropionic acid, the Lathyrus sativus neurotoxin (141)71
Malathi, P., see Deshmukh, D.S.
Malengé, J.P., see Nusbaum-Cassuto, E.
Malhortra, O.P., see Moore, H.C.
Malinský, J., see Trnavská, Z.
Malkin, S.
Fluorescence induction studies in isolated chloroplasts. II. Kinetic analysis of the fluorescence intensity dependence on time (126)433
— and Kok, B.
Fluorescence induction studies in isolated chloroplasts. I. Number of components involved in the reaction and quantum yields (126)413
Mallinson, N., see Mazelis, M.
Malmgren, B., see Vesterberg, O.
Malmström, B.G.
—, Aasa, R. and Vänngård, T.
Effect of increased pH on the spectral properties of fungal laccase (110)431
Malpoix, P.
Effects of erythropoietin in chick embryos

Malpoix, P. (continued)
(145)181
Malt, R.A.
Feasibility of obtaining Raman spectra from nucleic acid constituents (120)461
— and LeMaitre, D.A.
Differential labeling of 28-S RNA in free and membrane-bound ribosomes of kidney (145)190
— and Stoddard, S.K.
Synthesis of rRNA and of microsomal membranes in the renoprival kidney (119)207
Malviya, A.N.
— and Elliott, W.B.
The replacement of cytochrome c in digitonin fragments from beef-heart sarcosomes (131)210
Mal'ygin, E.G., see Drevitch, V.F.
Mamiya, G.
— and Gorin, G.
Urease. V. Some observations on the procedure for its isolation (105)382
Mancini, D., see Wang, D.
Mancuso, S.
—, Benagiano, G., Fröysa, B. and Diczfalusy, E.
Formation of testosterone sulphate by the human foetus in vivo (144)183
—, see Dell'Acqua, S.
Mandal, R.K., see Mitra, S.K.
Mandel, H.G., see Klubes, P.
Mandel, J.E., see Matthijssen, C.
Mandel, P., see Chambon, P.; see Doly, J.
Mandelbaum, F.R.
—, Carrillo, M. and Henriques, S.B.
Proteolytic activity of Bothrops protease A on the B chain of oxidized insulin (132)508
Mandelkern, L., see Glick, R.E.
Mangat, B.S., see Brown, E.G.
Mangiantini, M.T.
—, Tecce, G., Toschi, G. and Trentalance, A.
A study of ribosomes and of RNA from a thermophilic organism (103)252
Mangold, H.K., see Baumann, W.J.; see Schmid, H.H.O.
Mann, G.V., see Trundle, D.S.
Mann, J.D.
—, Cota-Robles, E., Yung, K.H., Pu, M. and Haid, H.
Phenylurethane herbicide: Inhibitors of changes in metabolic state. I (138)133
Manner, G.
—, Gould, B.S. and Slayter, H.S.
γ-Globulin synthesis on ribosomes and ribosomal aggregates (108)659
—, Kretsinger, R.H., Gould, B.S. and Rich, A.
The polyribosomal synthesis of collagen (134)411
—, see Gould, B.S.
Männl, H.K.F., see Hempel, K.
Mannschreck, A., see Ullrich, J.
Mans, R.J., see Stout, E.R.
Mansbach, C., see Corredor, C.
Mansbridge, J.N.
— and Korner, A.
The polysomes and the mRNA content of hepatoma 223 (119)92
Mansley, G.E.
—, Stanbury, J.T. and Lemberg, R.
Cytochrome oxidase and its derivatives. VI. The carbon monoxide combining capacity of cytochrome c oxidase (113)33
—, see Lemberg, R.
Mantai, K.E.
— and Bishop, N.I.
Studies on the effects of ultraviolet irradiation on photosynthesis and on the 520 nm light–dark difference spectra in green algae and isolated chloroplasts (131)350
Mantieva, V.L., see Arion, V.J.
Mantsavinos, R., see Coutsogeorgopoulos, C.
Mao, R.L., see Falcone, A.B.
Marbaix, G.
—, Burny, A., Huez, G. and Chantrenne, H.
Base composition of mRNA from rabbit reticulocytes (114)404
—, see Bollen, A.; see Burny, A.; see Huez, G.; see Lebleu, B.
Marble, S.J., see Golub, E.E.; see Soda, K.
Marcer, G., see Azzone, G.F.
Marchaim, U.
— and Kulka, R.G.
The non-parallel increase of amylase, chymotrypsinogen and procarboxypeptidase in the developing chick pancreas (146)553
Marchetti, M., see Botré, C.
Marchiori, F., see Marzotto, A.
Marchis-Mouren, G.
— and Paséro, L.
Isolation of two amylases in porcine pancreas (140)366
—, see Cozzone, A.; see Reboud, J.P.
Marechal, L.R.
β-1,3-Oligoglucan:orthophosphate glucosyltransferases from Euglena gracilis. I. Isolation and some properties of a β-1,3-oligoglucan phosphorylase (146)417; β-1,3-Oligoglucan:orthophosphate glucosyltransferases from Euglena gracilis. II. Comparative studies between laminaribiose- and β-1,3-oligoglucan phosphorylase (146)431
Marfey, P.S.
— and King, M.V.
Chemical modification of ribonuclease A crystals. I. Reaction with 1,5-difluoro-2,4-dinitrobenzene (105)178
Margna, E., see Margna, U.
Margna, U.
—, Hallop, L., Margna, E. and Tohver, M.
Chromatographic and spectrophotometric evidence for the occurrence of luteolin and apigenin C-glycosides in the cotyledons of buck-wheat seedlings (136)396
Margolis, R.U.
Acid mucopolysaccharides and proteins of bovine whole brain, white matter and myelin (141)91
Mariano, E.E.
— and Schram-Doumont, A.
Rapidly labelled RNA in Xenopus laevis embryonic cells (103)610
Marikovsky, Y.
—, Danon, D. and Katchalsky, A.
Agglutination by polylysine of young and old red blood cells (124)154
—, see Bach, D.; see Danon, D.
Marinetti, G.V.
— and Gray, G.M.
A fluorescent chemical marker for the liver cell plasma membrane (135)580
—, see Courtade, S.; see Erbland, J.F.

Marker, A.F.H., see Miflin, B.J.
Märki, F.
— and Greengard, P.
Nicotinamide deamidase in Ehrlich ascites tumor cells (113)587
Markiw, M.E., see Creasey, W.A.
Markman, R., see Weinbaum, G.
Markovich, D.S., see Bolotina, I.A.
Markovitz, A., see Rodén, L.
Markowitz, A.S., see Lange, Jr., C.F.
Marks, F.
— and Hecker, E.
Enzymatic preparation of 2-hydroxy-[4-^{14}C]estrone (144)690
—, see Hecker, E.
Marks, P.A., see Luzzatto, L.; see Rosenkranz, H.S.
Marlowe-Kuchler, M., see Kuchler, R.J.
Marner, E., see Weinstein, I.B.
Maroux, S.
— et Rovery, M.
Contribution à l'étude de la structure de la chymotrypsine α de boeuf. La chaîne C et son core trypsique (113)126
—, Rovery, M. and Desnuelle, P.
Hydrolysis by bovine trypsin of some aromatic bonds in high molecular weight peptides (122)147;
An autolyzed and still active form of bovine trypsin (140)377
Marquardt, R.R.
— and Brosemer, R.W.
Insect extramitochondrial glycerophosphate dehydrogenase. I. Crystallization and physical properties of the enzyme from honeybee (Apis mellifera) thoraces (128)454
—, see Brosemer, R.W.
Marrink, J.
— and Gruber, M.
Use of casein in assays for proteolytic activity in tissue extracts: A warning (118)438
Marriott, J.
— and Perkins, D.J.
Relationships between the copper atoms of caeruloplasmin. I. Studies on the exchange of ^{64}Cu with caeruloplasmin (117)387;
Relationships between the copper atoms of caeruloplasmin. II. An interaction between the copper binding sites (117)395
Marriq, C.
—, Luccioni, F. et Laurent, G.
Présence de radicaux acétyle dans les anhydrases carboniques érythrocytaires humaines et caractérisation d'un peptide N-terminal acétylé dans l'enzyme B (105)606
Marsh, C.A.
Fragmentation of cotton fibres during early stages of enzymic cellulolysis (122)367
Marshall, R.D., see Coleman, T.J.
Mårtensson, E.
Neutral glycolipids of human kidney (116)296;
Sulfatides of human kidney. Isolation, identification and fatty acid composition (116)521
Marti, E., see Läuger, P.
Martin, A.P.
—, Doyle, G.E. and Stotz, E.
Cytochrome c oxidase and phosphatides. I. Spectral changes associated with changes in phosphatide profile (110)290
Martin, D.B.
— and Pittman, J.G.
Stimulation of fatty acid biosynthesis by preincubation with mitochondria (116)214
Martin, E.M., see Dalgarno, L.
Martin, G.R., see Jeffrey, J.J.
Martin, J.R., see Durham, N.N.
Martin, S.J., see Brown, F.
Martin, S.P., see Shah, N.S.
Martinez, J., see Ondarza, R.N.
Martuscelli, J., see Castañeda, M.
Maruo, B., see Kadowaki, K.
Maruyama, H.
— and Mizuno, D.
The participation of ribonuclease in the degradation of Escherichia coli rRNA as revealed by oligonucleotide accumulation in the phosphorus-deficient stage (108)593;
Reutilization of degradation products of rRNA in Escherichia coli strain B during the phosphorus-deficient stage (123)510
Maruyama, K.
Some physicochemical properties of β-actinin, "actin-factor", isolated from striated muscle (102)542;
Effect of β-actinin on the particle length of F-actin (126)389
—, see Haga, T.; see Hama, H.; see Sunouchi, E.
Maruyama, M., see Hama, H.
Marx-Figini, M.
— und Schulz, G.V.
Uber die Kinetik und den Mechanismus der Biosynthese der Cellulose in den höheren Pflanzen (Nach versuchen an den Samenhaaren der Baumwolle) (112)81
Marzotto, A.
—, Marchiori, F., Moroder, L., Boni, R. and Galzigna, L.
Enzymatic activity of partially synthetic ribonucleases (147)26
Masamune, Y.
Conditional heterogeneity in the DNA of bacteriophage T2 (108)132
Mase, K., see Takahashi, Y.
Maslova, R.N.
— and Varshavsky, Y.M.
Thermal denaturation of Escherichia coli DNA–DNA hybrids in ordinary and heavy water (119)633
Mason, H.S.
— and Peterson, E.W.
Melanoproteins. I. Reactions between enzyme-generated quinones and amino acids (111)134
Mason, M., see Singer, S.
Mass, M., see Wiener, S.L.
Massaro, E.J.
Urea-mediated freeze–thaw hybridization of lactate dehydrogenase (147)45
Massey, V., see Wren, A.
Masson, P.L.
—, Carbonara, A.O. and Heremans, J.F.
Studies on the proteins of human saliva (107)485
— and Heremans, J.F.
Molecular size of γA-immunoglobulin from bronchial secretions (120)172
—, Heremans, J.F. and Prignot, J.

Masson, P.L. (continued)
Proteins of human bronchial secretions (111)466
Massoulié, J.
— et Michelson, A.M.
Polynucléotides analogues. X. Les réactions de déplacement entre polynucléotides (134)22
—, Michelson, A.M. and Pochon, F.
Polynucleotide analogues. VI. Physical studies on 5-substituted pyrimidine polynucleotides (114)16
—, see Pochon, F.
Masters, C.J.
— and Hinks, M.
The regulation of lactate dehydrogenase biosynthesis during morphogenesis (113)611
—, see Fieldhouse, B.; see Hinks, M.; see Holmes, R.S.
Masui, T.
—, Herman, R. and Staple, E.
Oxidation of 5β-cholestane-3α, 7α,12α, 26-tetraol to 5β-cholestane-3α,7α,12α-triol-26-oic acid via 5β-cholestane-3α,7α,12α-triol-26-al by rat liver (117)266
— and Staple, E.
Formation of cholic acid from 3α,7α,12α,24-DL-tetrahydroxycoprostanic acid by rat liver (104)305
Masuzumi, M., see Kobayashi, S.
Matchett, W.H.
Utilization of tryptophan by Neurospora (107)222
Mates, G., see Shulman, S.
Matheson, A.T., see Wang, J.H.
Mathews, C.K., see Klein, A.
Mathews, J.
Placental transfer of L-tyrosine in rabbits (117)473
Mathias, A.P., see Fisher, R.F.; see Watts, R.L.
Mathur, P.P., see Shah, N.S.
Matrone, G., see Peters, D.S.; see Whanger, P.D.
Matsubara, H., see Ando, K.
Matsubara, M.
—, Katoh, S., Akino, M. and Kaufman, S.
Sepiapterin reductase (122)202
Matsuda, M.
— and Ogoshi, H.
Preparations and properties of deamino-DNA (119)210
Matsudaira, H., see Sekiguchi, T.
Matsui, H.
— and Schwartz, A.
Purification and properties of a highly active ouabain-sensitive ($Na^+ + K^+$)-dependent ATPase from cardiac tissue (128)380
Matsumura, Y., see Kido, R.
Matsuno, M., see Yosizawa, Z.
Matsushima, A.
—, Inada, Y. and Shibata, K.
States of amino acid residues in proteins. X. Tyrosine residues in oxytocin and glucagen (121)338
—, see Hachimori, Y.
Matsuura, S., see Morimoto, T.
Matsuzaki, K.
Fractionation of amino acid-specific sRNA from silkgland by methylated albumin column chromatography (114)222
—, see Yuasa, S.
Mattern, C.F.T., see Du Buy, H.G.
Matthews, R.E.F., see Ralph, R.K.
Matthijssen, C.
— and Mandel, J.E.
Preparation of an adrenal steroid 21-hydroxylating system exhibiting activity in the absence of the carbon monoxide-binding pigment, cytochrome P-450 (146)613
Matuk, Y., see Allin, W.D.
Matuo, Y., see Yamashita, J.
Matus, A.I., see Ralph, R.K.
Matushita, Y.
— and Takagi, Y.
Deacetylation of N-acetylglucosamine 6-phosphate by the bovine parotid gland extract (124)204
Matyash, L.P., see Stepanov, V.M.
Matze, R., see Bloemendal, H.; see Schoenmakers, J.G.G.
Maubois, J.L.
—, Pion, R. et Ribadeau-Dumas, B.
Preparation et étude de la β-lactoglobuline de brebis cristallisée (107)501
Mauchamp, J., see Nunez, J.
Maude, D.L.
Water, Na^+, and K^+ in rat-kidney microsomes (135)365
Mauritzen, C.M., see Bellair, J.T.
Mauzerall, D., see Cellarius, R.A.
Maxam, A.M., see Liss, M.
Maxfield, M., see Pape, L.
Maxwell, I.H.
Effect of tetracycline on pulse-labelling of polysomes with [^{3}H]uridine in intact cells of Bacillus megaterium KM (138)329;
Partial removal of bound tRNA from polysomes engaged in protein synthesis in vitro after addition of tetracycline (138)337
May, P., see Berger, G.
Mayer, K., see Temperli, A.
Mayer, L.A., see Metzger, R.P.
Maynard, D.E.
— and Gander, J.E.
A new uracil nucleoside from Penicillium charlesii (115)54
Mayne, B.C.
Formation of a quencher of the fluorescence of chromatophores from photosynthetic bacteria (109)59
Mayne, R.
— and Barry, J.M.
Actinomycin D does not inhibit stimulation by insulin of fatty acid synthesis in mammary gland slices (107)160;
Insulin maintains the level of RNA in mammary tissue cultures (138)195
Mazel, P.
—, Kerza-Kwiatecki, A. and Simanis, J.
Studies on the demethylation of puromycin and related compounds by liver microsomal enzymes (114)72
Mazelis, M.
—, Levin, B. and Mallinson, N.
Decomposition of methyl methionine sulfonium salts by a bacterial enzyme (105)106

Mazumder, R., see Biswas, D.K.
Mead, J.F., see Gerschenson, L.E.; see Knipprath, W.G.
Means, A.R.
— and Hamilton, T.H.
Early effects of estrogen on uterine uptake of amino acids and their incorporation into subcellular protein fractions (129)432
Mechanic, G.L.
—, Katz, E.P. and Glimcher, M.J.
The Sephadex gel filtration characteristics of the neutral soluble proteins of embryonic bovine enamel (133)97
—, see Glimcher, M.J.; see Katz, E.P.
Mecke, D.
— und Holzer, H.
Repression und Inaktivierung von Glutaminsynthetase in Escherichia coli durch NH_4^+ (122)341
—, Wulff, K. und Holzer, H.
Metabolit-induzierte Inaktivierung von Glutaminsynthetase aus Escherichia coli im zellfreien System (128)559
Medina, J., see Gatica, M.
Mednieks, M., see Simon, L.
Mednis, A., see Rosenkranz, H.S.
Mee, L.K.
—, Navon, G. and Stein, G.
Action of atomic hydrogen on trypsin in aqueous solution (104)151
Mego, J.L.
— and McQueen, J.D.
Degradation of injected [^{131}I]albumin by secondary lysosomes of mouse liver (111)166
—, see Buetow, D.E.
Mehdi, Q.
— and Yudkin, M.D.
Coupling of transcription to translation in the induced synthesis of β-galactosidase (149)288
Mehl, J.W., see Howard, S.M.
Mehrishi, J.N.
— and Seaman, G.V.F.
Temperature dependence of the electrophoretic mobility of cells and quartz particles (112)154
Meikle, A.W.
—, Gotto, A.M. and Touster, O.
The metabolism of purine compounds in Ehrlich ascites tumor cells. Evidence for a salvage pathway of inosine metabolism (138)445
Meilman, E., see Wiener, S.L.
Meisler, M.H., see Penick, R.J.
Meissner, L., see Grünberger, D.
Meister, A., see George, H.; see Golub, E.E.; see Soda, K.
Meizel, S.
— and Kay, E.R.M.
Studies of the incorporation in vitro of DNA by cells of the Ehrlich–Lettré ascites carcinoma (103)431;
The incorporation of heat-denatured DNA by cells of the Ehrlich–Lettré ascites carcinoma in vitro (123)34
Mejbaum-Katzenellenbogen, W.
— and Kubicz, A.
Preparation of bovine thyroid-stimulating hormone using the tannin and caffeine procedure (136)159
Melani, F.
—, Ramponi, G., Farnararo, M., Cocucci, E. and Guerritore, A.
Regulation by phosphate of alkaline phosphatase in rat kidney (138)411
Melchers, F.
—, Dütting, D. and Zachau, H.G.
Enzymatic splitting of serine-specific tRNA (108)182
Melgar, E., see Guerra, R.M.
Melicow, M.M., see Price, T.D.
Melius, P.
— and Simmons, W.S.
Utilization of 1-butanol for the preparation of pancreatic lipase (105)600
Mellema, J.E.
—, Van Bruggen, E.F.J. and Gruber, M.
Uranyl oxalate as a negative stain for electron microscopy of proteins (140)180
Melli, M., see Cammarano, P.
Mellors, A.
—, Tappel, A.L., Sawant, P.L. and Desai, I.D.
Mitochondrial swelling and uncoupling of oxidative phosphorylation by lysosomes (143)299
Meloun, B.
—, Kluh, I., Kostka, V., Morávek, L., Prusík, Z., Vaněček, J., Keil, B. and Šorm, F.
Covalent structure of bovine chymotrypsinogen A (130)543
Melzer, M.S.
Effect of carcinogens and other compounds on deoxyribonuclease (138)613;
The effect of a carcinogenic peroxide on DNA (142)538
Memory, J.D., see Mainster, M.A.
Mencher, J.R.
—, Ng, H. and Alford, J.A.
Extracellular nature of the lipase of Pseudomonas fragi (106)628
Mendelson, N.H.
— and Fraser, D.
Physical effects of the DNA inhibitor β-phenethyl alcohol (102)559
Meng, H.C., see Crass, III, M.F.
Menon, K.M.J.
—, Dorfman, R.I. and Forchielli, E.
Influence of gonadotrophins on the cholesterol side-chain cleavage reaction by rat-testis mitochondrial preparations (148)486
—, see Drosdowsky, M.
Menzies, C.A.
— and McQuillan, M.T.
Partial purification and properties of a peptidase from thyroid glands (132)444
Menzies, R.A.
—, Press, G.D. and Strehler, B.L.
Nucleic acid synthesis by old and young adult rat marrow cells in vitro (145)178
Menzinger, G., see Garratt, C.J.
Mercer, E.H.
— and Day, M.F.
The structure of sericesthis iridescent virus and of its crystals (102)590
Mercola, D.A.
—, Morris, J.W.S., Arquilla, E.R. and Bromer, W.W.
The ultraviolet circular dichroism of bovine insulin and desoctapeptide insulin (133)224

Mercuri, O.
—, Peluffo, R.O. and Brenner, R.R.
Depression of microsomal desaturation of linoleic to γ-linolenic acid in the aloxan-diabetic rat (116)410
Meretsky, D., see Uchida, K.
Merits, I.
Actinomycin inhibition of "soluble" RNA synthesis in rat liver (108)578
Merola, L.O., see Hayman, S.
Merrett, T.
Observations on the dissociation of oxy-, deoxy- and ferrihaemoglobin in relation to pH and ionic strength by the Sephadex method (124)389
Merril, C.R.
—, Snyder, S.H. and Bradley, D.F.
Inhibition of histamine methyltransferase by serotonin and chlorpromazine derivatives: Electronic aspects (118)316
Mesnard, G., see Vasilescu, D.
Messer, M.
— and Kerry, K.R.
Intestinal digestion of maltotriose in man (132)432
Methenitou, H., see Akoyunoglou, G.
Metlička, R.
— and Rybová, R.
Oscillations of the trans-membrane potential difference in the alga Hydrodictyon reticulatum (135)563
Metzenberg, R.L., see Kappy, M.S.
Metzger, J.F.
—, Smith, C.W. and Hoggan, M.D.
A model for the purification of viruses for the production of specific immune serum (115)230
Metzger, R.P.
—, Piszkiewicz, D., Mayer, L.A., Mobley, P.W. and Wick, A.N.
Stimulation of glucose oxidation by liver homogenates with hexose 6-phosphates (141)231
Meyer, D.M., see Bourillon, R.
Meyer, T.S.
— and Lamberts, B.L.
Use of coomassie brilliant blue R250 for the electrophoresis of microgram quantities of parotid saliva proteins on acrylamide-gel strips (107)144
Mialhe, H., see Rothblat, G.H.
Miall, S.H.
— and Walker, I.O.
Structural studies on ribosomes. I. The binding of proflavine to Escherichia coli ribosomes (145)82
Michaels, R.
— and Kim, K.-H.
Comparative studies of putrescine degradation by microorganisms (115)59
Michalec, Č.
Biochemistry of sphingolipids. I. Thin-layer chromatography of sphingosines (106)197;
Biochemistry of sphingolipids. III. Preparative paper and thin-layer chromatographic technique for the separation of sphingosine and phytosphingosine bases (116)400
—, see Souček, A.
Michel, G., see Guinand, M.
Michel, I., see Hilf, R.
Michell, R.H.
—, Harwood, J.L., Coleman, R. and Hawthorne, J.N.
Characteristics of rat liver phosphatidyl-inositol kinase and its presence in the plasma membrane (144)649
—, see Coleman, R.; see Galliard, T.
Michelson, A.M.
Synthesis of dinucleotide anhydrides and ribonucleoside 3'-phosphate 5'-pyrophosphates (114)460
— and Monny, C.
Polynucleotide analogues. IX. Polyxanthylic acid (129)460;
Polynucleotide analogues. XII. Poly 5-bromocytidylic acid and poly 5-iodocytidylic acid (149)88;
Polynucleotides. X. Oligonucleotides and their association with polynucleotides (149)107
—, Monny, C., Laursen, R.A. and Leonard, N.J.
Polynucleotide analogues. VIII. Poly 3-isoadenylic acid (119)258
— and Pochon, F.
Polynucleotide analogues. VII. Methylation of polynucleotides (114)469
—, see Grunberg-Manago, M.; see Hélène, C.; see Massoulié, J.; see Nahon, E.; see Pochon, F.
Midgett, R.J., see Abbott, M.T.
Midgley, J.E.M.
The estimation of polynucleotide chain length by a chemical method (108)340;
Studies on the structure of 23-S ribosomal RNA from Escherichia coli (108)348;
The isonicotinyl hydrazones of nucleosides and their phosphorylated derivatives (123)210
— and McIlreavy, D.J.
The chemical structure of bacterial rRNA. II. Growth conditions and polynucleotide distribution in Escherichia coli rRNA (142)345;
The isonicotinyl hydrazones of Escherichia coli rRNA's (145)512
—, see McIlreavy, D.J.
Miech, R.P.
— and Laskowski, Sr., M.
Correction to the paper "Activation of chymotrypsinogen B" (116)427
Mieyal, J.J.
—, Votaw, R.G., Krampitz, L.O. and Sable, H.Z.
Evidence for a second carbanion in the mechanism of thiamine catalysis (141)205
Miflin, B.J.
—, Marker, A.F.H. and Whittingham, C.P.
The metabolism of glycine and glycollate by pea leaves in relation to photosynthesis (120)266
Migliorini, R.H.
— and Linder, C.
Oxytocin and lipogenesis by adipose tissue in vitro (125)392
Mihalyi, E.
Physicochemical studies of bovine fibrinogen. III. Optical rotation of the native and denatured molecule (102)487
— and Godfrey, J.E.
Kinetic studies of the digestion of fibrinogen by α-chymotrypsin (132)94

—, see Johnson, P.
Mikeš, O.
—, Tomášek, V., Holeyšovský, V. and Šorm, F.
Covalent structure of bovine trypsinogen (117)281
Miks, B., see Kawiak, J.
Milic, G., see Azzone, G.F.
Miljanich, P., see Lyman, R.L.
Millar, D.B., see Grafius, M.B.
Millar, D.B.S.
— and Steiner, R.F.
Fluorescent conjugates of biosynthetic polyribonucleotides (102)571
Millar, G.J., see Losito, R.
Millar, P.G., see Shields, J.E.
Miller, D.M.
A re-examination of Stein's dimer theory of sugar transport in human erythrocytes (120)156
Miller, G.W., see Hsu, W.P.
Miller, I.R.
Adsorption of DNA on surfaces of copolymers containing vinylpyridine (103)219
—, see Bach, D.
Miller, J.E.
— and Cornatzer, W.E.
Phospholipid metabolism in mitochondria and microsomes of rabbit liver during development (125)534
Miller, J.H., see Kempner, E.S.
Miller, L.L., see Garrido-Pinson, G.C.
Miller, L.V.
—, Schlosser, G.H. and Beigelman, P.M.
Electrical potentials of isolated fat cells (112)375
Miller, N., see Papahadjopoulos, D.
Miller, O.N., see Frentz, G.D.
Miller, W.L.
— and Gaylor, J.L.
Apparent non-specific effect of bile salts on the terminal reactions of cholesterol biosynthesis by rat liver (137)399
Mills, G.C., see Rakitzis, E.T.
Mills, W.A., see Armentrout, S.A.
Milman, L.S.
— and Yurowitzki, Yu.G.
Fructose 1,6-diphosphate and 3',5'-cyclic AMP as positive effectors of pyruvate kinase in developing embryos (146)301; The control of glycolysis in early embryogenesis (148)362
Milne, G.W.A., see Avigan, J.
Milner, R.D.G.
— and Hales, C.N.
The sodium pump and insulin secretion (135)375
Minakami, S., see Toda, G.
Minakata, A.
Dielectric dispersion of G-actin (126)570
Minari, O., see Akiyama, M.
Minguell, J.
— and Perretta, M.
Ribonuclease activity in rat bone marrow (142)545
Minnaert, K.
Measurement of the equilibrium constant of the reaction between cytochrome c and cytochrome a (110)42
—, see Smith, L.
Miranda, P.M., see Way, J.L.
Miranda, P.M., see Way, J.L.
Mirvish, S.S.
Metabolism of N-hydroxyurethane in relation to its carcinogenic action: Conversion into urethane and an N-hydroxyurethane glucuronide (117)1
Mirza, M.A.A.
— and Cannon, M.
A comparison of different methods for the preparation of sRNA from Escherichia coli (149)596
Mirzabekov, A.D.
—, Grünberger, D., Holý, A., Bayev, A.A. and Šorm, F.
Recognition of synonym codons by purified yeast valine tRNA fractions and fragments from valine $tRNA_1$ (145)845
—, Krutilina, A.I. and Bayev, A.A.
Use of a combined temperature-concentration gradient for tRNA separation on DEAE-cellulose columns (129)426
—, see Bayev, A.A.; see Grachev, M.A.
Mishima, K., see Ishigami, M.
Mishkin, E.P.
— and Shore, M.L.
Inhibition by actinomycin D of the induction of tryptophan pyrrolase by hydrocortisone (138)169
Misra, U.K.
Isolation of lysophosphatidyl ethanolamine from human serum (106)371
Mita, T.
Actinomycin D on RNA synthesis and synchronous cell division of Tetrahymena pyriformis GL (103)182
Mitchell, B., see Gerwing, J.
Mitchell, C.D.
—, Mitchell, W.B. and Hanahan, D.J.
Enzyme and hemoglobin retention in human erythrocyte stroma (104)348
Mitchell, W.B., see Mitchell, C.D.
Mitchell, W.M.
A potential source of electrophoretic artifacts in polyacrylamide gels (147)171
Mitchison, J.M., see Cummins, J.E.
Mitidieri, E.
— and Affonso, O.R.
Molybdenum requirement for bacterial xanthine dehydrogenase activity (105)371
Mitoma, C.
—, Yasuda, D.M., Tagg, J. and Tanabe, M.
Effect of deuteration of $O-CH_3$ group on the enzymic demethylation of o-nitroanisole (136)566
Mitra, S.K.
—, Mandal, R.K. and Burma, D.P.
A biosynthesis method for preparing ^{35}S-labelled lipoic acid (107)131
Mitropoulos, K.A.
— and Myant, N.B.
The formation of lithocholic acid, chenodeoxycholic and other bile acids from 3β-hydroxychol-5-enoic acid in vitro and in vivo (144)430
Mitsui, A., see Itoh, R.
Mittermayer, C.
—, Braun, R. and Rusch, H.P.
RNA synthesis in vitro in nuclei isolated from the synchronously dividing Physarum polycephalum (114)536

Mittermayer, C. (continued)
—, see Braun, R.
Miura, A.
— and Ohba, Y.
Structure of nucleohistone. III. Interaction with toluidine blue (145)436
Miura, K.
— and Muto, A.
Lack of mRNA activity of a double-stranded RNA (108)707
—, see Fujimura, Y.; see Hayashi, Y.; see Kikugawa, K.
Miura, Y.
—, Itoh, H., Sunaga, K., Nishizawa, T. and Ohki, I.
Fibrous DNA–RNA complex (134)258
Miyake, Y.
—, Aki, K., Hashimoto, S. and Yamano, T.
Crystallization and some properties of D-amino-acid oxidase apoenzyme (105)86
Miyaki, K., see Unemoto, T.
Miyazawa, F.
—, Olijnyk, O.R., Tilley, C.J. and Tamaoki, T.
Interactions between dextran sulfate and Escherichia coli ribosomes (145)96
— and Tamaoki, T.
Stabilization of Escherichia coli ribosomes by sulfhydryl compounds (134)470
Mize, C.E., see Baxter, J.H.
Mizrahi, I.J.
On the relationship between a post-microsomal fraction and polynucleotide-directed amino acid incorporation by rat-liver ribosomes (108)419
Mizuhara, S., see Kuwaki, T.; see Ubuka, T.
Mizuno, D., see Iizuka, M.; see Futai, M.; see Maruyama, H.; see Natori, S.; see Nose, K.
Mizuno, M., see Tashima, Y.
Mizuno, N., see Fujita, M.; see Nagano, K.
Mizuno, N.S.
Effects of streptonigrin on nucleic acid metabolism of tissue culture cells (108)394
—, Collin, M.V. and Hof, H.
Factors affecting quantitation of RNA fractions by use of phenol and thermal gradient (149)296
Mizushima, H., see Yubisui, T.
Mobley, P.W., see Metzger, R.P.
Mochan, E., see Nicholls, P.
Modolell, J.B.
— and Moore, R.O.
ATPase activities of rat epididymal adipose tissue (135)319
Mohammadzadeh-K., A.
—, Feeney, R.E., Samuels, R.B. and Smith, L.M.
Solubility of alkanes in protein solutions (147)583
Mohanaradhakrishnan, V.
— and Ramanathan, N.
An electron microscopical study of the sheath covering collagen fibres (112)586
—, see Ramanathan, N.
Möhlenbeck, F., see Goedde, H.W.
Mokrash, L.C.
Spontaneous incorporation of biogenic amines into purified proteolipid (107)607
Moldave, K., see Gasior, E.; see Sutter, R.P.
Molea, G., see De Lorenzo, F.
Molotkovsky, Y.G.
— and Zhestkova, I.M.
Morphological and functional changes in isolated chloroplasts under the influence of oleate (112)170
Mommaerts, W.F.H.M., see Briskey, E.J.; see Seraydarian, K.; see Uchida, K.
Mondale, L., see Cummings, D.J.
Mondovì, B.
—, Rotilio, G., Finazzi-Agrò, A. and Costa, M.T.
Diamine oxidase inactivation by hydrogen peroxide (132)521
Monier, R., see Rosset, R.
Monny, C., see Michelson, A.M.
Monro, R.E., see Vazquez, D.
Montague, M.D.
— and Moulds, J.D.
The phosphorus content of cell walls of Micrococcus lysodeikticus (135)565
Montalvo, D.A., see Gause, E.M.
Montecuccoli, G., see Cennamo, C.
Montie, D.B., see Montie, T.C.
Montie, T.C.
—, Montie, D.B. and Ajl, S.J.
A comparison of the characteristics of two murinetoxic proteins from Pasteurella pestis (130)406
Monty, K.J., see Siegel, L.M.
Moog, F.
—, Vire, H.R. and Grey, R.D.
The multiple forms of alkaline phosphatase in the small intestine of the young mouse (113)336
—, see Brown, K.M.
Moore, H.C.
—, Lux, S.E., Malhortra, O.P., Bakerman, S. and Carter, J.R.
Isolation and purification of bovine and canine prothrombin (111)174
Moore, J.H.
— and Williams, D.L.
Dietary linolenic acid and the accumulation of homo-γ-linoleic acid in the cholesterol esters of the adrenal gland of the rabbit (116)181;
Studies on the cholesterol esters of the adrenal glands and other tissues of the rabbit (125)352
—, Williams, D.L. and Westgarth, D.R.
Interrelationships between the major fatty acids present in lecithin isolated from the plasma of experimental rabbits (106)145
Moore, L.D.
— and Umbreit, W.W.
Membrane-associated protein synthesis in Streptococcus faecalis (103)466
Moore, R.O., see Modolell, J.B.
Moorjani, S., see Chaudhary, K.D.
Moos, C.
—, Eisenberg, E. and Estes, J.E.
Bound-nucleotide exchange in actin and actomyosin (147)536
Mora, G., see Gatica, M.
Mora, J.
—, Cañedo, L. and Soberón, G.
Metabolic role of β-glucuronidase (101)137
—, Tarrab, R. and Bojalil, L.F.
On the structure and function of different arginases (118)206
—, see Castañeda, M.
Mora, P.T.
Acid denaturation of DNA in the presence of

a polyanion (109)568
Morais, R.
— and De Lamirande, G.
Formation of oligonucleotides with 5'-phosphomonoester end group by rat-liver microsomal fraction (103)506
Morávek, L., see Meloun, B.
Mordoh, J., see Zancan, G.T.
Morel, F., see Bourguet, J.
Morell, D.B.
—, Chang, Y. and Clezy, P.S.
The structure of the chromophore of sulph-myoglobin (136)121
Morell, J.L., see Schöberl, A.
Moret, V.
—, Lorini, M., Fotia, A. and Siliprandi, N.
Effect of atractyloside on the binding of adenine nucleotides to the mitochondrial "structural protein" (124)433
—, see Ballio, A.; see Lorini, M.; see Pinna, L.A.
Moretti, J., see Got, R.; see Mouray, H.
Moretti, R.L.
— and Abraham, S.
Effects of insulin on glucose metabolism by explants of mouse mammary gland maintained in organ culture (124)280
Morgan, M.S., see Gorski, J.
Morgan, R.G.H.
—, Barrowman, J., Filipek-Wender, H. and Borgström, B.
The lipolytic enzymes of rat pancreatic juice (146)314
Morgan, R.S.
Stripping of protein from yeast ribosomes by a soluble polyanion (123)623
— and Rhoads, D.G.
Binding of acridine orange to yeast ribosomes (102)311
—, see Weller, D.L.
Morgan, T.E.
—, Finley, T.N. and Fialkow, H.
Comparison of the composition and surface activity of "alveolar" and whole lung lipids in the dog (106)397
Morgan, W.S., see Maier, G.D.
Morgan, W.T.J., see Dunstone, J.R.
Mori, K.F.
Serologically active polypeptide in fresh normal bovine serum (133)588
Mori, M.
—, Taniuchi, H., Kojima, Y. and Hayaishi, O.
Studies on kynurenic acid hydroxylase: Requirement for iron and flavin nucleotide (128)535
Moriguchi, E.
— and Suzuki, K.
Studies on the relationship between the transforming activity and the integrity of DNA as revealed by ultraviolet flow dichroism (109)578
Morihara, K.
—, Oka, T. and Tsuzuki, H.
Multiple proteolytic enzymes of Streptomyces fradiae. Production, isolation, and preliminary characterization (139)382
— and Tsuzuki, H.
Proteolytic substrate specificity and some elastolytic properties of a thermostable bacterial proteinase (118)215
Morimoto, H.
—, Iizuka, T., Otsuka, J. and Kotani, M.
Magnetic anisotropy of the myoglobin single crystal (102)624
— and Kotani, M.
Fluorine superhyperfine structure in EPR spectra of the single crystal of the myoglobin fluoride (126)176
—, see Hayashi, A.
Morimoto, T.
The RNA component of the "native" 50-S ribosomal particle in Escherichia coli (129)634
—, Tashiro, Y. and Matsuura, S.
Chase of newly synthesized proteins in guinea-pig pancreas with cycloheximide (138)631
—, Yamamoto, O., Yamamoto, S. and Sibatani, A.
Isolation of a rapidly labelled RNA fraction from calf thymus nuclei (108)152
—, see Tashiro, Y.
Morin, R.J.
The influence of cholesterol on the incorporation of [1-^{14}C]acetate into phosphatidyl choline and phosphatidyl ethanolamine of rat liver mitochondria (144)594
Morita, S.
—, Edwards, M. and Gibson, J.
Influence of metabolic conditions on light-induced absorbance changes in Chromatium D (109)45
Morita, T., see Ogata, K.
Moroder, L., see Marzotto, A.
Morowitz, H.J., see Engelman, D.M.; see Terry, T.M.
Moroz, C.
—, De Vries, A. and Sela, M.
Isolation and characterization of a neurotoxin from Vipera palestinae venom (124)136
—, see Grotto, L.
Morris, A.J., see Casjens, S.R.
Morris, D.J.
— and Barnes, Jr., F.W.
On the intracellular contribution of [4-^{14}C]-cortisol in rat liver (136)67
Morris, J.A., see Mortensen, L.E.
Morris, J.W.S., see Mercola, D.A.
Morris, R.O.
Changes in pea root proteins associated with tissue differentiation: The effect of 2,4-dichlorophenoxyacetic acid (127)273
Morrison, J.F.
— and Uhr, M.L.
The function of divalent metal ions in the reaction catalysed by ATP:creatine phosphotransferase (122)57
—, see James, E.
Morrison, L.M., see Murata, K.
Morrison, W.W.
— and McCluer, R.H.
The temperature-dependent extraction of two rapidly-labeled DNA-like RNA fractions from rat liver (138)649
Morrissey, S., see Bannister, W.H.
Morse, H., see Coffey, R.G.
Morse, M.L., see Egan, J.B.
Mortenson, L.E.
Components of cell-free extracts of Clostridium pasteurianum required for ATP-dependent H_2 evolution from dithionite and

Mortenson, L.E. (continued)
for N_2 fixation (127)18
—, Morris, J.A. and Jeng, D.Y.
Purification, metal composition and properties of molybdoferredoxin and azoferredoxin,two of the components of the N_2-fixing system of Clostridium pasteurianum (141)516
Morton, R.A., see Bucke, C.
Moscarello, M.A.
—, Sutherland, L. and Jackson, S.H.
Stimulation of [^{14}C]glucosamine incorporation into plasma proteins by aminonucleoside (127)373
Moscona, A.A.
— and Piddington, R.
Stimulation by hydrocortisone of premature changes in the developmental pattern of glutamine synthetase in embryonic retina (121)409
—, see Giudice, G.; see Piddington, R.
Moser, A.B., see Moser, H.W.
Moser, H.W.
—, Moser, A.B. and Orr, J.C.
Preliminary observations on the occurrence of cholesterol sulfate in man (116)146
Moses, V.
— and Sharp, P.B.
Effect of actinomycin on the synthesis of macromolecules in Escherichia coli (119)200
Mosinger, B.
— and Kujalová, V.
Potassium-dependent adrenaline lipomobilizing effect on incubated adipose tissue (116)174
— and Vaughan, M.
Effects of electrolytes on epinephrine-stimulated lipolysis in adipose tissue in vitro (144)556;
The action of cyclic 3',5'-adenosine monophosphate on lipolysis in rat adipose tissue (144)569
—, see Kujalová, V.
Moss, A.M., see Horning, M.G.
Moss, H., see Stone, A.L.
Mossman, M.R., see Gray, C.T.
Motokawa, Y.
— and Kikuchi, G.
Cytochrome systems in dark-aerobically grown Rhodopseudomonas spheroides (120)274
Moulds, J.D., see Montague, M.D.
Moulé, Y., see Bergeron-Bouvet, C.; see Landin, R.M.
Mouray, H.
—, Got, R. and Moretti, J.
Etude biochimique de l'α_1-macroglobuline du sérum de lapin. II. Métabolisme (107)286
—, see Got, R.
Mousset, M., see Grenson, M.
Moyer, A.N., see Wool, I.G.
Mozes, E., see Sela, M.
Mudd, S., see Hisatsune, K.
Mueller, D.M.
—, Henley, K.S., Hendelman, L.U. and Gumucio, J.J.
The steady-state relaxation time and the product at equilibrium (139)231
Mueller, G.C.
— and Kajiwara, K.
Early- and late-replicating DNA complexes in HeLa nuclei (114)108;
Actinomycin D and p-fluorophenylalanine; inhibitors of nuclear replication in HeLa cells (119)557
— and Le Mahieu, M.
Induction of RNA synthesis in human leukocytes by phytohemagglutinin (114)100
—, see Tamaoki, K.
Mühlbachova, E., see Sólyom, A.
Mühlrad, A.
—, Bosko, S. and Birő, N.A.
The ATPase activity of the meromyosins (132)138
— and Hegyi, G.
Role of Ca^{2+} in the ATPase activity of myofibrils (105)341
—, Kovács, M. and Hegyi, G.
The role of Mg^{2+} in the contraction and ATPase activity of myofibrils (107)567
Muiesan, G., see Peart, W.S.
Muijsers, A.O., see Van Gelder, B.F.
Mukai, J.
— and Soeta, E.
Action of silkworm endonuclease on oligoribonucleotides terminating in 3'-phosphate (138)1
Mukherjee, P.P.
—, Goldschmidt, M.E. and Williams, R.P.
Enzymic formation of prodigiosin analog by a cell-free preparation from Serratia marcescens (136)182
Mulczyk, M., see Romanowska, E.
Mulder, A.H.
— and Wit, J.G.
The inhibitory action of 2,6-dichloro-3-hydroxybenzonitrile and 2,6-dichloro-4-hydroxybenzonitrile on the beating of heart cells in tissue culture. Antagonism of oligomycin (128)391
Mulder, E.
— and Van Deenen, L.L.M.
Metabolism of red-cell lipids. I. Incorporation in vitro of fatty acids into phospholipids from mature erythrocytes (106)106;
Metabolism of red-cell lipids. III. Pathways for phospholipid renewal (106)348
—, Van den Berg, J.W.O. and Van Deenen, L.L.M.
Metabolism of red-cell lipids. II. Conversions of lysophosphoglycerides (106)118
Mulder, G., see Schilperoort, R.A.
Mulford, D.J., see Yue, K.T.N.
Müller, M., see Semenza, G.
Müller, W.A., see Bürgi, H.; see Froesch, E.R.
Mumma, R.O., see Bowman, R.D.
Munch-Petersen, A.
Thymidine breakdown and thymine uptake in different mutants of Escherichia coli (142)228
—, see Neuhard, J.
Munck, B.G.
Amino acid transport by the small intestine of the rat. The effect of amino acid preloading on the transintestinal amino acid transport by the everted sac preparation (109)142;
Amino acid transport by the small intestine of the rat. The existence and specificity of the transport mechanism of imino acids and

its relation to the transport of glycine (120)97;
Amino acid transport by the small intestine of the rat. On the counterflow phenomenon as a cause of the accelerating effect of leucine on the transintestinal transport of diamino acids (120)282;
Amino acid transport by the small intestine of the rat. The transintestinal transport of tryptophan in relation to the transport of neutral and basic amino acids (126)299
Munday, K.A.
— and Munn, E.A.
Oxidation of fatty acids in vitro by mitochondria from Carcinus maenas (110)202
Municio, A.M.
— and Eckhardt, E.M.
Changes induced by penicillin in the time-course of intra- and extracellular fatty acid spectra of Escherichia coli 26-26 (137)207
— and Vega, A.
The behaviour of aspartate semialdehyde as a precursor of the intra- and extracellular amino acids in Escherichia coli 26-26 (127)317
—, see Alcaide, A.
Munk, K., see Sauer, G.
Munkres, K.D.
— and Woodward, D.O.
Interaction of Neurospora mitochondrial structural protein with other proteins and coenzyme nucleotides (133)143
Munn, E.A., see Munday, K.A.
Munro, H.N., see Drysdale, J.W.; see Hallinan, T.; see McIndoe, W.
Munroe, D.P., see Lewin, S.
Munson, T.O.
—, Dilworth, M.J. and Burris, R.H.
Method for demonstrating cofactor requirements for nitrogen fixation (104)278
Muramatsu, M.
—, Hodnett, J.L., Steele, W.J. and Busch, H.
Synthesis of 28-S RNA in nucleolus (123)116
Muraoka, S.
—, Enomoto, H., Sugiyama, M. and Yamasaki, H.
The mechanism of the reduction of cytochrome c by xanthine oxidase (143)408
—, Hoshika, A., Yamasaki, H., Yamada, H. and Adachi, O.
Reduction of cytochrome c by amine oxidase from Aspergillus niger (122)544
Murase, K., see Watari, H.
Murashige, K.
—, McDaniel, D. and Chaykin, S.
N-Methylnicotinamide oxidation in hog liver (118)556
Murata, K.
—, Quilligan, J.J. and Morrison, L.M.
Inhibition of lipid synthesis by puromycin in chick aortic cells (144)473
Murata, N.
—, Nishimura, M. and Takamiya, A.
Fluorescence of chlorophyll in photosynthetic systems. I. Analysis of "weak light effect" in isolated chloroplasts (112)213;
Fluorescence of chlorophyll in photosynthetic systems. II. Induction of fluorescence in isolated spinach chloroplasts (120)23;
Fluorescence of chlorophyll in photosynthetic systems. III. Emission and action spectra of fluorescence – three emission bands of chlorophyll a and the energy transfer between two pigment systems (126)234
Muratova, G.L., see Stepanov, V.M.
Murota, S.
—, Endo, H. and Tamaoki, B.
Identification of metabolites of cortisol in cultured bone and their effects upon bone formation (136)379
—, Shikita, M. and Tamaoki, B.
Androgen formation in the testicular tissue of patients with prostatic carcinoma (117)241;
Conversion of cortisol to tetrahydrocortisol by cultured chick-embryo femora (117)424
— and Tamaoki, B.
Metabolism of progesterone and testosterone by chick embryo cartilage in vitro (137)347
Murray, E.S., see Watson, W.C.
Murray, K., see MacPherson, A.
Murray, M., see Husebey, R.M.
Murray, T.K.
— and Erdody, P.
Absorption and storage of retro-vitamin A acetate (124)190;
The absorption and metabolism of anhydrovitamin A by the rat (136)375
—, see Varma, T.N.R.
Murthy, H.S.R.
—, Sampath Kumar, K. and Venkitasubramanian, T.A.
NAD- and NADP-specific dehydrogenases in cord-factor-treated mice (146)584
Murthy, M.R.V.
Protein synthesis in growing-rat tissues. I. Effect of various metabolites and inhibitors on phenylalanine incorporation by brain and liver ribosomes (119)586;
Protein synthesis in growing rat tissues. II. Polyribosome concentration of brain and liver as a function of age (119)599
Mushinski, J.F., see Finlayson, J.S.
Mustafa, M.G., see Packer, L.
Muto, A., see Kikugawa, K.; see Miura, K.
Mutolo, V.
—, Giudice, G., Hopps, V. and Donatuti, G.
Species specificity of embryonic ribosomal proteins (138)214
— and Giudice, G.
Experiments of hybridization of rRNA from different stages of sea-urchin embryos (149)291
—, see Giudice, G.
Muthukrishnan, S., see Padmanaban, G.
Mutschler, L.E.
— and Gordon, A.H.
Plasma protein synthesis by the isolated perfused regenerating rat liver (130)486
Mutzbauer, H.
— und Schulz, G.V.
Die Bestimmung der molekularen Konstanten (s,D,M) von α-Amylase aus Humanspeichel (102)526
—, see Kranz, D.
Myant, N.B., see Mitropoulos, K.A.
Myers, J., see Gordon, J.; see Holten, R.W.
Myers, T., see Simon, L.
Myles, M., see Landon, E.J.

N

Naber, J.E.
—, Schepman, A.M.J. and Rörsch, A.
The binding of deoxyribonuclease of Escherichia coli to DNA immobilized in agarose (114)326
Nace, G.W., see Hegenhauer, J.C.
Nagai, K.
— and Yoshida, H.
Biphasic effects of nucleotides on potassium-dependent phosphatase (128)410
—, see Yoshida, H.
Nagano, K.
—, Mizuno, N., Fujita, M., Tashima, Y., Nakao, T. and Nakao, M.
On the possible role of the phosphorylated intermediate in the reaction mechanism of $(Na^+ + K^+)$-ATPase (143)239
—, see Fujita, M.; see Tashima, Y.
Nagao, M.
— and Sugimura, T.
Selective inhibition by acriflavine of cytochrome a and b synthesis in yeast undergoing aerobic adaptation (103)353
—, see Sugimura, T.
Nagasawa, H.T., see Dickie, N.
Nagata, C., see Kodama, M.
Nagatsu, T.
—, Kuzuya, H. and Hidaka, H.
Inhibition of dopamine β-hydroxylase by sulfhydryl compounds and the nature of the natural inhibitors (139)319
Nagel, R.L., see Bookchin, R.M.
Nagy, B.
Optical rotatory dispersion of G-actin–adenosine 5'-diphosphate (115)498
Nagy, Z., see Libor, S.
Nahon, E.
—, Michelson, A.M. et Lacour, F.
Antigénicité des complexes de polynucléotides (149)127
Naik, M.S.
— and Nicholas, D.J.D.
Phosphorylation associated with nitrate and nitrite reduction in Micrococcus denitrificans and Pseudomonas denitrificans (113)490;
NADH–benzyl viologen reductase from Azotobacter vinelandii (118)195;
Reduction of viologen dyes and a non-haem iron protein by NADH in particles from Azotobacter vinelandii (131)204
Nair, P.P.
— and Bucana, C.
Intracellular distribution of vitamin D in rat liver (124)254
— and Machiz, J.
Gas–liquid chromatography of isomeric methyltocols and their derivatives (144)446
Nakada, D.
Ribosome formation by puromycin-treated Bacillus subtilis (103)455;
Functional activity of ribosomes formed in vivo from "relaxed" particles (145)664
—, see Kaji, A.
Nakagawa, H., see Tsurufuji, S.
Nakahara, T., see Kimizuka, H.
Nakai, G.S.
— and Craddock, C.G.
Uridine-diphosphoglucose glucosyltransferase in human leukemic leukocytes (121)195
Nakajima, T., see Kanazawa, A.
Nakamura, N., see Koizumi, T.
Nakamura, Y.
—, Otsuka, H. and Tamaoki, B.
Requirement of a new flavoprotein and a non-heme iron-containing protein in the steroid 11β- and 18-hydroxylase system (122)34
Nakanishi, K., see Inoue, Y.
Nakano, H.
—, Inano, H., Sato, H., Shikita, M. and Tamaoki, B.
Side-chain cleavage as related to steroid hormone synthesis (137)335
—, see Inano, H.
Nakano, M.
—, Tsutsumi, Y. and Danowski, T.S.
Crystalline L-amino-acid oxidase from the soluble fraction of rat kidney cells (139)40
Nakao, A.
—, Davis, W.J. and Roboz Einstein, E.
Basic proteins from the acidic extract of bovine spinal cord. I. Isolation and characterization (130)163;
Basic proteins from the acidic extract of bovine spinal cord. II. Encephalitogenic, immunologic and structural interrelationships (130)171
Nakao, K., see Torii, S.; see Wada, O.
Nakao, M., see Fujita, M.; see Nagano, K.; see Tashima, Y.
Nakao, T., see Fujita, M.; see Nagano, K.; see Tashima, Y.
Nakashima, K., see Kashiwamata, S.
Nakashima, S.
—, Ohi, S., Tsukada, K. and Oura, H.
Polyribosomes in antibody-forming tissues of hyperimmunized rabbits (145)671
Nakashima, T., see Fox, S.W.
Nakazawa, A.
—, Kojima, Y. and Taniuchi, H.
Purification and properties of pyrocatechase from Pseudomonas fluorescens (147)189
Nakazawa, K., see Katagiri, M.
Nakazawa, T., see Watari, H.
Nakazawa, Y., see Osawa, T.
Nance, S.L., see Rahman, Y.E.
Naoi, M., see Yagi, K.
Naono, S.
—, Rouvière, J. and Gros, F.
mRNA-forming capacity in ribosome-depleted bacteria (129)271
Naora, H.
Incorporation of ribonucleoside triphosphates in a nuclear ribosome system, in vitro, during the DNA-stimulated

incorporation of amino acids (114)437;
DNA-dependent protein synthesis in nuclear ribosome system in vitro (123)151
— and Naora, H.
Interaction of DNA with cytoplasmic particles. I. Formation of a cytoplasmic particle–DNA complex (134)277
Narahara, H.T., see Wohltmann, H.J.
Narasimha Rao, P., see Edwards, B.E.
Narayan, K.A.
The interaction of ethylene glycol with rat-serum lipoproteins (137)403
—, Dudacek, W.E. and Kummerow, F.A.
Disc electrophoresis of isolated rat-serum lipoproteins (125)581
—, see Dudacek, W.E.
Nari, J., see Ricard, J.
Narisawa, K.
— and Kikuchi, G.
Mechanism of allylisopropylacetamide-induced increase of δ-aminolevulinate (123)596
Narise, S.
— and Hubby, J.L.
Purification of Esterase-5 from Drosophila pseudoobscura (122)281
Narushima, U., see Nishimura, S.
Naslin, L., see Labeyrie, F.
Nason, A., see Rees, M.
Nass, G.
— and Neidhardt, F.C.
Regulation of formation of aminoacyl-RNA synthetases in Escherichia coli (134)347
Nass, S.
Incorporation of $^{32}P_i$ into mitochondrial and nuclear DNA in regenerating liver (145)60
Nataf, B.M.
— and Chaikoff, I.L.
Effect of insulin on iodine metabolism of fetal thyroid glands in organ culture (111)422
Natori, S.
—, Horiuchi, T. and Mizuno, D.
Absence of ribonuclease in Alcaligenes faecalis and a possible mechanism of RNA degradation in this bacterium (134)337
— and Mizuno, D.
Turnover of rRNA in a ribonuclease I-less mutant of Escherichia coli, Q-13, which was found to possess polynucleotide phosphorylase (145)328
—, Nozawa, R. and Mizuno, D.
The turnover of rRNA of Escherichia coli in a magnesium-deficient stage (114)245
—, Yogo, Y. and Mizuno, D.
Inhibition by oligonucleotides of the auto-degradation of rRNA and mRNA in cell free preparations from ribonuclease I-less bacteria (145)621
Natori, Y.
— and Tarver, H.
Studies on ethionine. VIII. Formation of ethanol and acetate from the ethyl group of ethionine in rat (107)136
Navon, G., see Mee, L.K.
Nayar, G.H., see Gamble, W.
Nayler, W.G., see Kennedy, K.G.
Nayudamma, Y., see Ramanathan, N.
Nazario, M.
The accumulation of argininosuccinate in Neurospora crassa. I. Elevated ornithine carbamoyltransferase with high concentrations of arginine (145)138;
The accumulation of argininosuccinate in Neurospora crassa. II. Inhibition of arginyl-tRNA synthesis by argininosuccinate (145)146
Neale, F.C., see Conyers, R.A.J.
Nedkov, P.
— and Genov, N.
Extending the range of application of the Edman method. Application to short peptides in small amounts (127)541;
A method for identifying C-terminal amino acids as their dimethylaminonaphthalene-sulphonyl- derivatives obtained after the hydrazinolysis of peptides (127)544
Nedvídková, J., see Kleinzeller, A.
Neelin, J.M., see Purkayastha, R.
Neidhardt, F.C., see Nass, G.
Nelson, G.J.
Lipid composition of erythrocytes in various mammalian species (144)221
Nelson, J.A.
—, Clark Ristow, S. and Holley, R.W.
Studies on the secondary structure of yeast alanine tRNA: Reaction with N-bromosuccinimide with nitrous acid (149)590
Nelson, M.
— and Boursnell, J.C.
Boar seminal plasma proteins. IV. Isolation of factors with haemagglutinating and protein-precipitating activity (117)144
—, see Boursnell, J.C.
Nelson, P., see Wagle, S.R.
Nemček, O.
—, Sigler, K. and Kleinzeller, A.
Ion transport in the pitcher of Nepenthes henryana (126)73
Nervi, M.A.
— and Brenner, R.R.
Identification and origin docosatrienoic acid of rat phospholipids (106)205
Netschey, A., see Salton, M.R.J.
Neuberger, A.
— and Wilson, B.M.
Inhibition of lysozyme by derivatives of D-glucosamine. I (147)473
Neufeld, E.F., see O'Brien, P.J.; see Goudsmit, E.M.
Neuhard, J.
Studies on the acid-soluble nucleotide pool in thymine-requiring mutants of Escherichia coli during thymine starvation. III. On the regulation of the dATP and dCTP pools of Escherichia coli (129)104;
Studies on the acid-soluble nucleotide pool in Escherichia coli. IV. Effects of hydroxyurea (145)1
— and Munch-Petersen, A.
Studies on the acid-soluble nucleotide pool in thymine-requiring mutants of Escherichia coli during thymine starvation. II. Changes in the amounts of dCTP and dATP in Escherichia coli $15T^-A^-U^-$ (114)61
Neuhaus, O.W., see Roy, A.K.
Neukom, H., see Hrazdina, G.
Neulat, M-M.
Caractérisation du DNA des glandes séricigènes du Bombyx mori L. (114)95;
Comparaison de différents DNA animaux par

Neulat, M-M. (continued)
l'analyse de leurs séquences pyrimidiques (149)422
Neumann, J.
— and Jagendorf, A.T.
Uncoupling photophosphorylation by detergents (109)382
Neville, Jr., D.M.
Fractionation of cell membrane protein by disc electrophoresis (133)168
Newburgh, R.W., see Coffey, R.G.
Newcombe, D.S.
— and Cohen, A.S.
Solubility characteristics of isolated amyloid fibrils (104)480
Newell Stannard, J., see Jones, W.B.G.
Newey, H., see Bingham, J.K.
Newman, M., see Slobodian, E.S.
Newsholme, E.A.
—, Robinson, J. and Taylor, K.
A radiochemical enzymatic activity assay for glycerol kinase and hexokinase (132)338
Newsome, J.
The synthesis of RNA in animal cells during mitosis (114)36
Newton, J.W.
Reaction of gramicidin with bacterial chromatophores (109)302;
Bacilliform mutants of Rhodospirillum rubrum (141)633
Neyfakh, E.A., see Freed, S.
Nezlin, R.S.
— and Kulpina, L.M.
Incorporation of radioactive amino acids into γ-globulin in a cell-free system from rat spleen (138)654
Ng, C.W.
— and Gregory, K.F.
Antibody to lactate dehydrogenase. II. Inhibition of glycolysis and growth of tumor cells (130)477
—, see Gregory, K.F.
Ng, H., see Mencher, J.R.
Ngo, E., see Ke, B.
Nguyen, L.B., see Pasqualini, J.R.
Nichol, C.A., see Bloch, A.
Nichol, L.W., see Winzor, D.J.
Nicholas, D.J.D., see Naik, M.S.; see Rao, P.S.
Nicholls, P.
— and Mochan, E.
Reactivity of cyancytochrome c (131)397
Nicholls, R.G.
—, Atkinson, M.R., Burgoyne, L.A. and Symons, R.H.
Changes in the properties of L-lactate dehydrogenase (cytochrome b_2) from yeast during preparation of the crystalline enzyme (122)14
Nichols, B.W.
Light-induced changes in lipids of Chlorella vulgaris (106)274
—, see Wood, J.B.J.
Nichols, Jr., G., see Rosenbusch, J.P.
Nichols, J.L.
— and Lane, B.G.
N^4-methyl-2'-O-methyl cytidine and other methyl-substituted nucleoside constituents of Escherichia coli rRNA and sRNA (119)649
Nicholson, J.F.
—, Ponticorvo, L. and Rittenberg, D.
Labeling of RNA from Escherichia coli grown on [1-^{18}O]glucose (108)519
Nicholson, W.J.
— and Fortoul, J.I.
Measurements of the fluorescent lifetimes of Chlorella and Porphyridium in weak light (143)577
Niedermeier, W.
—, Dobson, C. and Laney, R.P.
Studies on the ascorbic acid-induced depolymerization of hyaluronic acid (141)366
—, Gramling, E. and Pigman, W.
Interaction of hyaluronic acid and bovine plasma albumin (130)143
—, Laney, R.P. and Dobson, C.
The mechanism of action of ceruloplasmin in inhibiting ascorbic acid-induced depolymerization of hyaluronic acid (148)400
Niemann, B., see Jollès, J.
Niemann, H., see Von Schaeg, W.
Niewiarowski, S., see Farbiszewski, R.
Nijkamp, H.J.J.
— and De Haan, P.G.
Genetic and biochemical studies of the GMP pathway in Escherichia coli (145)31
Nijs, P.
On the nature of electron and energy transport in mitochondria. I. Multiple inhibition of mitochondrial respiration (143)454
Nikaido, H.
—, Nikaido, K. and Rapin, A.M.C.
Biosynthesis of TDP-L-rhamnose in Escherichia coli (111)548
Nikaido, K., see Nikaido, H.
Nikuni, Z., see Doi, A.; see Takeda, Y.
Nilsson, Å.
—, Hill, J.L. and Lloyd Davies, H.
An in vitro study of formononetin and biochanin A metabolism in rumen fluid from sheep (148)92
Nilsson, A.
— and Borgström, B.
Absorption and metabolism of lecithin and lysolecithin by intestinal slices (137)240
Nimni, M.E.
Accumulation of collagen precursor in skin of penicillamine-treated rats (111)576
Nirenberg, M., see Grünberger, D.
Nirenberg, M.W., see Jones, O.W.
Nishibayashi, H.
—, Omura, T. and Sato, R.
The binding of ethyl isocyanide by hepatic microsomal hemoprotein (118)651
Nishikido, T., see Izui, K.
Nishimoto, K., see Fox, J.L.
Nishimura, M.
— and Takamiya, A.
Analyses of light-induced bacteriochlorophyll absorbance change and fluorescence emission in purple bacteria (120)34;
Energy- and electron-transfer systems in algal photosynthesis. I. Actions of two photochemical systems in oxidation–reduction of cytochrome in Porphyra (120)45
—, see Murata, N.
Nishimura, S.
—, Harada, F. and Ikehara, M.
Selective utilization of tubercidin triphosphate as an ATP analog in the DNA dependent

RNA polymerase system (129)301
—, Harada, F., Narushima, U. and Seno, T.
Purification of methionine-, valine-, phenylalanine- and tyrosine-specific tRNA from Escherichia coli (142)133
—, see Takeishi, K.
Nishimura, T.
—, Shimizu, B. and Futai, M.
The synthesis of α-nucleoside 5'-phosphates and their properties with respect to polynucleotide phosphorylase (129)654
Nishizawa, T., see Miura, Y.
Niv, J.
—, Hochberg, A. and Dimant, E.
The metabolism of glutathione of human blood (127)26
Nixon, D.A., see Britton, H.G.
Noall, D.L., see Griffith, O.H.
Nobel, P.S.
Relation of swelling and photophosphorylation to light-induced ion uptake by chloroplasts in vitro (131)127
Noble, M., see Barber, R.
Noda, H., see Haga, T.; see Hama, H.; see Sunouchi, E.; see Yoshida, E.
Noda, M.
— and Fujiwara, N.
Positional distribution of fatty acids in galactolipids of Artemisia princeps leaves (137)199
Noelken, M.
The molecular weight of α_{s1}-case in B (140)537
Noguchi, T., see Kido, R.
Nohara, H.
—, Takahashi, T. and Ogata, K.
Acetylation of histones by pigeon liver enzymes (127)282
Noir, B.A.
—, Groszman, R.J. and De Walz, A.T.
Studies on bilirubin sulphate (117)297
Nojima, S., see Inoue, K.; see Kanemasa, Y.; see Kataoka, T.
Noll, R.M., see Duggan, D.E.
Nolte, A., see Eichhorn, M.M.
Nonoyama, M.
— and Ikeda, Y.
Mode of phage RNA replication studied by the annealing method (129)548
Nordlie, R.C.
— and Snoke, R.E.
Regulation of liver microsomal inorganic pyrophosphate–glucose phosphotransferase, glucose-6-phosphatase, and inorganic pyrophosphatase (148)222
—, see Snoke, R.E.; see Soodsma, J.F.
Nordstrand, E., see McKerns, K.W.
Nordström, C., see Dahlqvist, A.
Nordwig, A.
—, Kobrle, V. and Pfab, F.K.
Investigations on collagen proline hydroxylation in a cell-free system (147)487
—, see Hurych, J.
Norman, A.W.
Calcium accumulation in rat-liver mitochondria supported by substrate-level phosphorylation (118)655
Norrby, A., see Karlsson, K.-A.
Norton, L.F., see Dickie, N.
Norton, W.T., see Suzuki, K.
Norum, K.R.
Palmityl-CoA:carnitine palmityltransferase. Demonstration of essential sulfhydryl groups on the enzyme (105)506
— and Gjone, E.
Familial serum-cholesterol esterification failure. A new inborn error of metabolism (144)698
—, see Bøhmer, T.; see Farstad, M.
Nose, K.
—, Mizuno, D. and Ozeki, H.
Degradation of rRNA from Escherichia coli induced by colicine E2 (119)636
Notkins, A.L.
Recovery of an infectious RNA from the lactate dehydrogenase virus following extraction with butanol–chloroform (103)509
Nour, A.M., see Klink, F.
Nourse, L.D., see Hawtrey, A.O.
Nouvel, G., see Chauvet, J.
Novaes, M.
—, Gascón, S., Ochoa, A.G. and Villanueva, J.R.
Products of strepzyme M action on Candida utilis cell wall (115)486
Novak, R.L.
Deoxyribonuclease resistance of DNA–RNA polymerase complexes (149)593
Novelli, G.D.; see Cammarano, P.; see Pfuderer, P.; see Rosen, L.
Novick, A., see Horiuchi, T.
Novikova, M.A., see Budowsky, E.I.
Novoa, W.B.
—, Tigier, H.A. and Grisolia, S.
Substrate-induced changes in reactivity of sulfhydryl groups of carbamyl phosphate synthetase (113)84
Novogrodsky, A., see Katchalski, E.
Novotny, C.P.
— and Englesberg, E.
L-Arabinose permease system in Escherichia coli B/r (117)217
Nowak, P., see Thiele, O.W.
Nowoswiat, E.F., see Bello, J.
Nozawa, R., see Natori, S.
Nozu, K.
—, Harada, Y., Yuasa, S. and Honjo, I.
Base composition of mRNA of Pseudomonas effusa irradiated with ultraviolet light (103)517
—, see Harada, Y.; see Yuasa, S.
Nüesch, J., see Hartmann, G.
Nugteren, D.H.
Enzymic chain elongation of fatty acids by rat liver microsomes (106)280
Nunez, J.
—, Jacquemin, C., Brun, D. et Roche, J.
Protéines iodées particulaires thyroïdiennes. I (107)441;
Protéines iodées particulaires thyroïdiennes. II (107)454
—, Mauchamp, J., Jérusalmi, A. et Roche, J.
Synthèse acellulaire de la thyroglobuline et site d'iodation (145)127
—, Mauchamp, J., Macchia, V. et Roche, J.
Biosynthèse in vitro d'hormones doublement marquées dans les coupes thyroïde. II. Biosynthèse d'une préthyroglobuline non-iodée (107)247
—, Mauchamp, J., Pommier, J., Cirković, T. et Roche, J.

Nunez, J. (continued)
Biogenèse de la thyroglobuline: Les transitions d'halogénation (127)112
Nunn, Jr., A.S.
— and Ellert, M.S.
An effect of penetrating ions on magnesium efflux from rat small intestine, in vitro (135)973
Nusbaum-Cassuto, E.
—, Villoutreix, J. et Malengé, J.P.
Biosynthèse des caroténoïdes acycliques chez un mutant de Rhodotorula mucilaginosa (136)459
Nyc, J.F., see Scarborough, G.A.
Nygaard, O.F., see Jellum, E.
Nyman, P.O.
—, Strid, L. and Westermark, G.
Carboxyl-terminal amino acid sequences of human and bovine erythrocyte carbonic anhydrase (122)554
Nyström, E., see Eneroth, P.

Oaks, A.
Synthesis of leucine in maize embryos (111)79;
Asparagine synthesis in Zea mays (141)436
Obata, F., see Ogawa, T.
Öberg, B.
—, Albertsson, P.A. and Philipson, L.
Partition studies on nucleic acids. II. Countercurrent distribution of virus RNA (108)173
Obrenovitch, A., see Paoletti, C.
O'Brien, I.G., see Jackman, L.M.
O'Brien, P.J.
—, Canady, M.R., Hall, C.W. and Neufeld, E.F.
Transfer of N-acetylneuraminic acid to incomplete glycoproteins associated with microsomes (117)331
O'Brien, R.L.
—, Allison, J.L. and Hahn, F.E.
Evidence for intercalation of chloroquine into DNA (129)622
O'Brien, R.W., see Ilse, D.
Ochoa, A.G., see Novaes, M.
Öckerman, P.A.
Glucose-6-phosphatase in human jejunal mucosa (105)22
— and Lundberg, H.
Conversion of fructose to glucose by human jejunum (105)34
Oda, G., see Anwar, R.A.
Oestreicher, A.B.
— and Perlmann, G.E.
Structural studies on pepsinogen and pepsin. Tryptic digests of pepsinogen and pepsin (140)319
Offer, G.W.
N-terminus of myosin. I. Studies on N-acetyl peptides from a pronase digest of myosin (111)191
Ofner, P., see Jagarinec, N.
Ogasawara, N.
—, Chandler, J.L.R., Gholson, R.K., Rosser, R.J. and Andreoli, A.J.
Biosynthesis of quinolinic acid in a cell-free system (141)199
— and Gholson, R.K.
The non-identity of yeast nicotinic acid mononucleotide pyrophosphorylase and nicotinic acid mononucleotidase (118)422
—, see Yoshino, M.
Ogata, K.
—, Terao, K., Morita, T. and Sugano, H.
Synthesis of "basic structural proteins" of liver ribosomes by a cell-free system (129)217
—, Terao, K. and Sugano, H.
Studies on the biosynthesis of structural proteins of liver ribosomes. II. The incorporation of labelled amino acid into basic structural proteins of liver ribosomes by a cell-free system (149)572
—, see Nohara, H.; see Soda, K.; see Terao, K.
Ogata, Y., see Tsurufuji, S.
Ogawa, T.
—, Obata, F. and Shibata, K.
Two pigment proteins in spinach chloroplasts (112)223
Ogiso, T., see Shikita, M.
Ogoshi, H., see Matsuda, M.
Ohad, I., see Danon, D.
Ohaniance, W.
— et Chaix, P.
Effet inhibiteur de Zn^{2+} sur la biosynthèse induite par l'oxygène des enzymes respiratoires de la levure (128)228
Ohba, Y.
Structure of nucleohistone. I. Hydrodynamic behaviour (123)76;
Structure of nucleohistone. II. Thermal denaturation (123)84
—, see Miura, A.
Ohi, S., see Nakashima, S.
Ohki, I., see Miura, Y.
Ohnishi, T., see Yamazaki, I.
Oikawa, K., see McCubbin, W.D.
Oka, H., see Altman, M.
Oka, T., see Morihara, K.
Okabe, K., see Sugimura, T.
Okada, S., see Lehnert, S.
Okada, Y., see Tsugita, A.; see Yajima, H.
Okafor, N.
Isolation of chitin from the shell of the cuttlefish, Sepia officinalis L. (101)193
Okamoto, T.
Factors from Bacillus stearothermophilus that inhibit the binding of amino acids to tRNA (138)198
—, Imai, M. and Yura, T.
The cell-free synthesis of mRNA specific for the tryptophan operon in Escherichia coli (103)520
— and Kawade, Y.
Electrophoretic separation of complexes of aminoacyl-tRNA synthetase and tRNA (145)613
Okamura, K., see Yagi, K.
Okamura, N., see Floyd, L.
Okazaki, R., see Sakabe, K.
Okazaki, T.
—, Briehl, R.W., Wittenberg, J.B. and Wittenberg, B.A.
Hemoglobin of Ascaris perienteric fluid. II. Molecular weight and subunits (111)496
—, Wittenberg, B.A., Briehl, R.W. and Wittenberg, J.B.
The hemoglobin of Ascaris body walls (140)258
— and Wittenberg, J.B.
Hemoglobin of Ascaris perienteric fluid. III. Equilibria with oxygen and carbon monoxide (111)503
—, see Wittenberg, B.A.
Okhuma, S.
— and Shinohara, T.
MN Blood-group active sialoglycopeptides released from human erythrocytes by

Okhuma, S. (continued)
pronase treatment (147)169
Okunuki, K., see Ando, K.; see Kobayashi, S.; see Yubisui, T.
Okuyama, M.
—, Tsuiki, S. and Kikuchi, G.
α-Ketoglutarate-dependent oxidation of glyoxylic acid catalyzed by enzymes from Rhodopseudomonas spheroides (110)66
Olavarría, J.M., see Gödeken, O.G.R.
Olavesen, A.H.
— and Davidson, E.A.
Chemical synthesis of N-acetyl-galactosamine-α 1-phosphate-6-O-sulphate, N-acetylchondrosine sulphate and uridine diphosphate-N-acetylgalactosamine-6-O-sulphate (101)245
Olcott, H.S., see Kwon, T.W.
O'Leary, M.E., see Smith, K.C.
Oleinick, N.L.
— and Koritz, S.B.
The response of the microsomal Δ^5-3-ketosteroid isomerase from several steroidogenic tissues to diphosphopyridine nucleotides (122)333
Olenick, J.G.
— and Hahn, F.E.
RNA polymerase reaction catalyzed by enzymes from relaxed and stringent bacteria (129)429
Olijnyk, O.R., see Miyazawa, F.
Olitzki, A.L., see Boros, D.L.
Olivecrona, T.
On the relationship of glucose availability to fatty acid oxidation (106)433
—, see Belfrage, P.; see Elovson, J.; see Schotz, M.C.
Olomucki, A., see Pho, D.B.; see Thoai, N.V.
Olson, A.C.
— and Alaupovic, P.
Rat liver triglyceride lipase (125)186
Olson, J.A., see Dunagin, Jr., P.E.; see Lippel, K.; see Pope, J.L.
Olson, R.E., see McManus, I.R.; see Rao, K.S.
Olsson, I.
— and Gardell, S.
Isolation and characterization of glucosaminoglycans from human leukocytes and platelets (141)348
Oltmanns, O., see Lingens, F.
Omachi, A.
—, Deuticke, B. and Gerlach, E.
Fluoride inhibition of erythrocyte metabolism as a function of cellular P_i (124)421
O'Malley, B.W.
—, McGuire, W.L. and Korenman, S.G.
Estrogen stimulation of synthesis of specific proteins and RNA polymerase activity in the immature chick oviduct (145)204
—, see Korenman, S.G.
Omata, S., see Ichii, S.
Omura, T., see Nishibayashi, H.
Ondarza, R.N.
Characterization of a nucleotide–peptide from rat liver (107)112
— and Martinez, J.
A coenzyme-A-SS-glutathione reductase activity from rat liver (113)409
O'Neal, C.O., see Grünberger, D.
O'Neal Nicolson, M.
— and Flamm, W.G.
Properties and significance of free and bound ribosomes from cultured tobacco cells (108)266
Onisawa, J., see Labbe, R.F.
Ono, Y.
—, Watanabe, Y. and Ishida, N.
Mode of action of neocarzinostatin: Inhibition of DNA synthesis and degradation of DNA in Sarcina lutea (119)46
Ontko, J.A.
Endogenous hepatic ketogenis: Cofactor requirements (137)1;
Chylomicron, free fatty acid and ketone body metabolism of isolated liver cells and liver homogenates (137)13
Oosawa, F., see Hatano, S.
Op den Kamp, J.A.F.
—, Houtsmuller, U.M.T. and Van Deenen, L.L.M.
On the phospholipids of Bacillus megaterium (106)438
—, Van Iterson, W. and Van Deenen, L.L.M.
Studies on the phospholipids and morphology of protoplasts of Bacillus megaterium (135)862
Opit, L.J.
— and Charnock, J.S.
Effect of K^+ and Na^+ on rat-liver mitochondrial oxidative phosphorylation (110)9
—, Potter, H. and Charnock, J.S.
The effect of anions on (Na^+ + K^+)-activated ATPase (120)159
—, see Charnock, J.S.
Oppenheimer, J.H., see Smith, J.C.
Oratz, M.
—, Burks, A.L. and Rothschild, M.A.
The determination of free ε-amino groups in proteins (115)88
Ordin, L., see Katz, M.
Orii, Y., see Ando, K.
Orlando, J.A.
Rhodopseudomonas spheroides cytochrome c_2 (143)634
— and Maes, A.A.
An electrophoretic study of the heme proteins of some photosynthetic bacteria (140)459
Ormerod, J.G.
Depletion of potassium in Rhodospirillum (102)612
Ormerod, M.G.
— and Riesz, P.
An unusual reaction of hydrogen sulphide and hydrogen iodine with free radicals in irradiated dry DNA (149)451
— and Singh, B.B.
The formation of unpaired electrons on sulphur atoms in irradiated dry proteins as studied by electron spin resonance (120)413
—, see Baker, A.; see Singh, B.B.
Orr, J.C., see Moser, H.W.
Ortega, M.V., see Bastarrachea, F.; see Carrillo-Castañeda, G.
Orth, H.D., see Sauer, G.
Ory, R.L.
—, Kircher, H.W. and Altschul, A.M.
Separation of a heat-stable protein activator for the castor bean lipase (147)200

Osawa, S., see Hayashi, Y.; see Iwabuchi, M.; see Otaka, E.
Osawa, T.
Inhibition tests of plant agglutinins from Laburnum alpinum and Cytisis sessifolius with various sugars and sugar derivatives. Indication of the type of linkage in certain disaccharides (115)507
— and Nakazawa, Y.
Lysozyme substrates. Chemical synthesis of p-nitrophenyl-O-(2-acetamido-2-deoxy-β-D-glucopyranosyl)-(1→4)-O-(2-acetamido-2-deoxy-β-D-glucopyranosyl)-(1→4)-2-acetamido-2-deoxy-β-D-glucopyranoside and its reaction with lysozyme (130)56
Oshima, H.
—, Wakabayashi, K. and Tamaoki, B.
The effect of synthetic estrogen upon the biosynthesis in vitro of androgen and luteinizing hormone in rat (137)356
Oshima, T., see Hano, K.; see Kawai, S.
Oshino, N.
—, Imai, Y. and Sato, R.
Electron-transfer mechanism associated with fatty acid desaturation catalyzed by liver microsomes (128)13
Oslon, J.M., see Bergeron, J.A.
Osmond, C.B.
β-Carboxylation during photosynthesis in Atriplex (141)197
Östner, U., see Hultin, T.
Ostoslavskaya, V.I., see Stepanov, V.M.
Ostrowski, W.
— and Rybarska, J.
Studies on human prostatic acid phosphomonoesterase. Further purification and molecular weight of the enzyme (105)196
Ostroy, S.E.
—, Erhardt, F. and Abrahamson, E.W.
Protein configuration changes in the photolysis of rhodopsin. II. The sequence of intermediates in the thermal decay of cattle metarhodopsin in vitro (112)265
—, Rudney, H. and Abrahamson, E.W.
The sulfhydryl groups of rhodopsin (126)409
—, seeErhardt, F.
Ostwald, R., see Lyman, R.L.
O'Sullivan, M., see Brady, T.G.
Otaka, E.
— and Osawa, S.
The incorporation of amino acids into proteins of chloramphenicol particles in Escherichia coli (119)146
—, see Iwabuchi, M.
Otsuka, H.
— and Terayama, H.
Inhibition of DNA synthesis in ascites hepatoma cells by normal liver extract (123)274
—, see Nakamura, Y.
Otsuka, J., see Morimoto, H.; see Tasaki, A.
Ottesen, M., see Johansen, J.T.
Otto, R., see Chiu, T.H.
Ottolenghi, A., see Azzone, G.F.
Ottolenghi, A.C.
Phospholipase C from Bacillus cereus. A zinc-requiring metalloenzyme (106)510
Ottolenghi, C., see Brighenti, L.
Oumi, T., see Iwabuchi, M.
Oura, H., see Nakashima, S.
Ovander, M.N., see Girshovich, A.S.
Overgaard-Hansen, K.
Metabolic regulation of the adenine nucleotide pool. I. Studies on the transient exhaustion of the adenine nucleotides by glucose in Ehrlich ascites tumor cells (104)330
Owens, N.F., see Chapman, D.
Owens, O.v.H., see Kok, B.
Oxender, D.L., see Levine, M.
Oxman, M.A.
— and Cohen, L.A.
Reductive cyclization of α-tocopherolquinone (113)412
Øye, I.
— and Sutherland, E.W.
The effect of epinephrine and other agents on adenyl cyclase in the cell membrane of avian erythrocytes (127)347
—, see Søvik, O.
Ozaki, H.
— and Whiteley, A.H.
L-Malate dehydrogenase of the sea urchin Strongylocentrotus purpuratus (146)587
Ozawa, H., see Shimizu, H.
Ozeki, H., see Nose, K.

P

Pace, E.
5-Hydroxytryptamine in interstitial cells of foetal equine gonads (107)158
Pačes, V., see Doskočil, J.
Packer, L.
— and Barnard, A.C.
Preservation of photophosphorylation in glycerinated chloroplasts (126)443
— and Mustafa, M.G.
Pathways of electron flow established by tetramethylphenylenediamine in mitochondria and ascites tumor cells (113)1
—, see Crofts, A.R.; see Deamer, D.W.; see Young, J.A.
Paddle, B., see Ritter, C.
Padmanaban, G.
—, Muthukrishnan, S. and Sarma, P.S.
The role of iron heme synthesis in Neurospora crassa (141)187
—, see Malathi, K.
Paecht-Horowitz, M.
— and Katchalsky, A.
Polycondensation of amino acid phosphoanhydrides. II. Polymerization of proline adenylate at constant phosphoanhydride concentration (140)14
—, see Lewinsohn, R.
Pagano, R.
— and Thompson, T.E.
Spherical lipid bilayer membranes (144)666
Page, I.H., see Khairallah, P.A.
Paik, W.K.
— and Kim, S.
Studies on the stability of L-amino-acid oxidase of snake venom (139)49
Paimre, M., see Feinstein, M.B.
Pak, C.Y.C.
— and Bartter, F.C.
Ionic interaction with the bone mineral. I. Evidence for an isoionic calcium exchange with hydroxyapatite (141)401; Ionic interaction with the bone mineral. II. The control of Ca^{2+} and PO_4^{3-} exchange by univalent cation–Ca^{2+} substitution at the hydroxyapatite crystal surface (141)410
Paladini, A.C., see Santomé, J.A.
Palameta, B., see Kates, M.
Palau, J.
—, Pardon, J.F. and Richards, B.M.
The reversibility of the dissociation of nucleohistone by salt (138)633
Palchoudhury, S.R.
— and Poddar, R.K.
Enhanced nucleic acid synthesis in X-irradiated Escherichia coli C due to post-infection with bacteriophage ΦX174 (103)693
Paleček, E.
The polarographic behavior of double-helical DNA containing single-strand breaks (145)410
Paliokas, A.M.
— and Schroepfer, Jr., G.J.
Concerning the enzymatic conversion of Δ^7-cholesten-3β-ol to 7-dehydrocholesterol (144)168
Palla, J.C.
—, Ben Abdeljlil, A. and Desnuelle, P.
Comparative study of the control of amylase biosynthesis in rat pancreas and parotid glands (136)563
Palmer, G.
—, Mackler, B. and Duncan, H.M.
Electron paramagnetic resonance studies on the cytochrome oxidase from yeast (143)636
Palmer, J.M.
— and Wedding, R.T.
Purification and properties of succinyl-CoA synthetase from Jerusalem artichoke mitochondria (113)167
Palmieri, E., see Quagliariello, E.
Palmieri, F.
—, Cisternino, M. and Quagliariello, E.
Inhibition of uptake and oxidation of succinate in rat-liver mitochondria (143)625
— and Klingenberg, M.
On the possible role of structural protein in the binding and translocation of adenine nucleotides in mitochondria (131)582
Pandit-Hovenkamp, H.G.
A soluble factor promoting oxidative phosphorylation in particles isolated from Azotobacter vinelandii (118)645
Paneque, A.
—, Del Campo, F.F., Ramírez, J.M. and Losada, M.
Flavin nucleotide–nitrate reductase from spinach (109)79
— and Losada, M.
Comparative reduction of nitrate by spinach nitrate reductase with $NADH_2$ and $NADPH_2$ (128)202
—, see Losada, M.; see Ramírez, J.M.
Panijel, J.
—, Souleil, C. et Cayeux, C.
Immunochimie des polyribonucléotides. I. Homopolymères à une ou plusieurs chaines (123)221
—, see Cayeux, P.; see Souleil, C.
Panos, C.
— and Cohen, M.
Cell wall inhibition in a stable streptococcal L-form (117)98
Pantaloni, D.
— et Iwatsubo, M.
Fixation d'ADP, NADH et NADPH sur la glutamatedéshydrogénase, déterminée par spectrophotométrie (132)217
Pantekoek, J.F.C.A., see Gregory, K.F.
Panten, K.
—, Bernhardt, W. and Holzer, H.
Studien zur Oscillation der Synthesegeschwindigkeit von NAD-abhängiger Glutamatdehydrogenase in Saccharomyces cerevisiae (139)33
Paoletti, C.
—, Dutheillet-Lamonthezie, N., Jeanteur, Ph. et Obrenovitch, A.

Mise en évidence et étude cinétique des formes replicatives du DNA dans les cellules animales (149)435
—, see Le Pecq, J.B.
Papa, S.
—, De Haan, E.J., Francavilla, A., Tager, J.M. and Quagliariello, E.
Stimulation by uncouplers of the efflux of α-oxoglutarate from rat-liver mitochondria (143)438
—, Lofrumento, N.E. and Quagliariello, E.
Role of phosphopyruvate carboxylase in the control of succinate oxidation in rabbit-kidney mitochondria (110)442
—, Lofrumento, N.E., Secchi, A.G. and Quagliariello, E.
Utilization of respiratory substrates in calf-retina mitochondria (131)288
—, Tager, J.M., Francavilla, A., De Haan, E.J. and Quagliariello, E.
Control of glutamate dehydrogenase activity during glutamate oxidation in isolated rat-liver mitochondria (131)14
—, see Quagliariello, E.
Papaconstantinou, J.
Biochemistry of bovine lens proteins. II. The γ-crystallins of adult bovine, calf and embryonic lenses (107)81
—, Stewart, J.A. and Koehn, P.V.
A localized stimulation of lens protein synthesis by actinomycin D (114)428
—, see Stewart, J.A.
Papageorgiou, G.
— and Govindjee
Oxygen evolution from lyophilized Anacystis with CO_2 as oxidant (131)173
Papahadjopoulos, D.
— and Bangham, A.D.
Biophysical properties of phospholipids. II. Permeability of phosphatidylserine liquid crystals to univalent ions (126)185
— and Miller, N.
Phospholipid model membranes. I. Structural characteristics of hydrated liquid crystals (135)624
— and Watkins, J.C.
Phospholipid model membranes. II. Permeability properties of hydrated liquid crystals (135)639
—, see Bangham, A.D.
Pape, L.
— and Maxfield, M.
Neuraminidase action on the human urinary glycoprotein of Tamm and Horsfall (133)574
Papirmeister, B.
— and Davidson, C.L.
Unbalanced growth and latent killing of Escherichia coli following exposure to sulfur mustard (103)70
Papkoff, H.
— and Anantha Samy, T.S.
Isolation and partial characterization of the polypeptide chains of ovine interstitial cell-stimulating hormone (147)175
Pappenheimer, Jr., A.M., see Becker, G.E.
Pardee, A.B., see Dreyfuss, J.; see Herman, R.K.; see Kadish, L.J.
Pardini, R.S., see Zakim, D.
Pardon, J.F., see Palau, J.
Parein, M.M., see Deckx, R.F.
Parenti, F.
—, Franceschini, P., Forti, G. and Cepellini, R.
The effect of phytohaemagglutinin on the metabolism and γ-globulin synthesis of human lymphocytes (123)181
Paris, R.
— and Clement, G.
Differences in the behavior of oleic and palmitic acids during the synthesis of triglycerides from 1-monopalmitin by rat intestinal mucosa (106)634
Parish, J.H.
— and Hastings, J.R.B.
Some alternatives to sucrose for density gradient sedimentation (123)202
— and Kirby, K.S.
Patterns of mRNA synthesis during rat liver carcinogenesis induced by diethylnitrosamine and thioacetamide (114)198;
Reagents which reduce interactions between rRNA and rapidly labelled RNA from rat liver (129)554;
An extension of the naphthalene disulphonate method for mammalian nucleic acids (142)273
Parisi, M., see Portela, A.
Parker, C.A., see Kennedy, I.R.
Parker, Jr., C.J., see Yun, J.
Parker, R.C., see Healy, G.M.
Parker, T.S., see Abbott, M.T.
Parker, W.L., see Petkau, A.
Parkes, C.O.
— and Smillie, L.B.
The preparation and composition of the B and C chains of chymotrypsin B (113)629
Parkins, F.M.
—, Hollifield, J.W., McCaslin, A.J., Wu, S.-M.L. and Faust, R.G.
Active transport of fluoride by the rat intestine in vitro (126)513
Parkinson, T.M., see Pope, J.L.
Parks, L., see Cho, D.H.
Parry, R.M., see Chandan, R.C.
Parson, W.W.
Flash-induced absorbance changes in Rhodospirillum rubrum chromatophores (131)154;
Observations on the changes in ultraviolet absorbance caused by succinate and light in Rhodospirillum rubrum (143)263
Parsons, D.F.
— and Yano, Y.
The cholesterol content of the outer and inner membranes of guinea-pig liver mitochondria (135)362
—, see Wlodawer, P.
Parsons, D.S.
— and Prichard, J.S.
Properties of some model systems for transcellular active transport (126)471
—, see Bronk, J.R.
Parsons, V., see Glimcher, M.J.
Parthier, B.
— and Hultin, T.
Effects of postmicrosomal rat liver fractions on the activity of cell-free amino acid-incorporating systems (149)562
—, Smuckler, E.A. and Hultin, T.
A comparison between preincubated and non-preincubated rat liver ribosomes in the poly U-directed phenylalanine incorporation and

Parthier, B. (continued)
binding reactions (145)446
Partridge, S.M.
Diffusion of solutes in elastin fibres (140)132
Pascal, M-C.
— et Pichinoty, F.
Régulation de la biosynthèse et de la fonction des D- et L-lactate-déshydrogénases chez Aerobacter aerogenes (105)54
Paséro, L., see Marchis-Mouren, G.; see Reboud, J.P.
Pasieka, A.E.
— and Borowiecki, M.T.
Specific method for the detection of asparagine on paper chromatograms (111)553
Pasqualini, J.R.
—, Cedard, L. and Nguyen, L.B.
Differences in the activity of human term placenta sulphatases for steroid ester sulphates (139)177
—, Uhrich, F. and Jayle, M.F.
Structure of the aldosterone-conjugate isolated from human urine (104)515
—, Wiqvist, N. and Diczfalusy, E.
Biosynthesis of aldosterone by human foetuses perfused with corticosterone (121)430
Passent, J.
The molecular weight of sericin (147)595
Passerini, L., see Brighenti, L.
Passeron, A., see Jimenez de Asua, L.; see Recondo, E.
Patchornik, A., see Wilchek, M.
Patel, N.T., see Braganca, B.M.
Paterson, A.R.P., see Hampton, A.
Paterson, R.A.
— and Heath, H.
The effect of β,β'-iminodipropionitrile treatment and alloxan diabetes on the glycosaminoglycans of the rat retina and aorta (148)207
Pathak, M.A., see Baden, H.P.
Patil, R.B.
—, Pengra, R.M. and Yoch, D.C.
Effects of nitrogen supplements on nitrogen fixation by Aerobacter aerogenes (136)1
Patte, J.C.
—, Le Bras, G. and Cohen, G.N.
Regulation by methionine of the synthesis of a third aspartokinase and of a second homoserine dehydrogenase in Escherichia coli KI 12 (136)245
—, Truffa-Bachi, P. and Cohen, G.N.
The threonine-sensitive homoserine dehydrogenase and aspartokinase activities of Escherichia coli. I. Evidence that the two activities are carried by a single protein (128)426
Patterson, J.L., see VandenHeuvel, W.J.A.
Patton, S.
— and Benson, A.A.
Phytol metabolism in the bovine (125)22
—, Fuller, G., Loeblich, III, A.R. and Benson, A.A.
Fatty acids of the "red tide" organism, Gonyaulax polyedra (116)577
—, see Dimick, P.S.
Paulis, J.W., see Christianson, D.D.
Pavlič, M.
The inhibitory effect of tris(hydroxymethyl)-aminomethane on the activity of cholinesterases (139)133
Pavliček, Z., see Kalous, V.
Pavlovec, A., see Petermann, M.L.
Pawełkiewicz, J., see Bartosiński, B.
Payens, T.A.J.
— and Schmidt, D.G.
The thermodynamic parameters of the association of α_s-casein C (109)214
Payes, B., see Greenberg, D.M.
Payza, A.N.
—, Eiber, H.B. and Danishefsky, I.
Plasma clearing factor. I. Fractionation and characteristics (111)159
—, see Eiber, H.B.
Peabody, R.A., see Rosano, C.L.
Peacocke, A.R., see Leveson, J.E.; see Thrower, K.J.; see Williams, P.A.
Peake, R.L.
—, Balasubramaniam, K. and Deiss, Jr., W.P.
Effect of reduced glutathione on the proteolysis of intraparticulate and native thyroglobulin (148)689
Peanasky, R.J., see Kress, L.F.
Pearson, G.D., see Zimmerman, E.F.
Peart, W.S.
—, Lubash, G.D., Thatcher, G.N. and Muiesan, G.
Electrophoresis of pig and human renin (118)640
—, see Lubash, G.D.
Pecci, J.
— and Fujimori, E.
Mercurial-induced dissociation of phycoerythrin from Ceramium rubrum (131)147
Pečevsky, I.
— and Kučan, Ž.
On the nature of the breakdown of RNA in X-irradiated Escherichia coli (145)310
Pechere, J.F., see Zanen, J.
Peck, E.J.
— and Awapara, J.
Formation of taurine and isethionic acid in rat brain (141)499
Peck, W.A.
—, Birge, Jr., S.J. and Brandt, J.
Collagen synthesis by isolated bone cells: Stimulation by ascorbic acid in vitro (142)512
Pedersen, T.A.
—, Kirk, M. and Bassham, J.A.
Inhibition of photophosphorylation and photosynthetic carbon cycle reactions by fatty acids and esters (112)189
Peisach, J., see Blumberg, W.E.
Peled, R., see Lapidot, Y.
Pell, F.E., see Risinger, G.E.
Peluffo, R.O., see Brenner, R.R.; see Mercuri, O.
Peña, A.
—, Cinco, G., García, A., Gómez-Puyou, A. and Tuena, M.
Effects of externally added sodium and potassium ions on the glycolytic sequence of Saccharomyces cerevisiae (148)673
Pende, B., see Deželić, N.
Pène, M.G., see Warner, J.R.
Pengra, R.M., see Patil, R.B.
Penhos, J.C.
—, Wu, C.H., Daunas, J.A. and Levine, R.
Effect of glucagon on lipid and glycogen

content of the perfused rat liver (144)678
Penick, R.J.
— and McCluer, R.H.
Evidence for a second trisialo ganglioside (106)435;
Quantitative determination of glucose and gangliosides by gas–liquid chromatography (116)288
—, Meisler, M.H. and McCluer, R.H.
Thin-layer chromatographic studies of human brain gangliosides (116)279
Penner, D.
— and Ashton, F.M.
Hormonal control of isocitrate lyase synthesis (148)481
Pennisi, F., see Rosa, U.
Pennock, J.F., see Dunphy, P.J.
Pereira, J.F.
— and Tollin, G.
Molecular complexes of flavins: A comparison of flavin–indole and flavin–phenol interactions (143)79
Perevertaylo, G.A., see Tikhonenko, T.I.
Perez, A.G., see Kim, J.H.
Pérez, J.C., see Portela, A.
Perez del Cerro, M., see Abood, L.G.
Perkins, D.J., see Marriott, J.
Perkins. H.J., see Roberts, D.W.A.
Perlmann, G.E., see Oestreicher, A.B.
Permual, A.S.
—, Anantha Samy, T.S., Lakshmanan, M.R., Jungalwala, F.B. and Rama Rao, P.B.
Biosynthesis of sulfated mucopolysaccharides in relation to vitamins A and K (124)95
Péron, F.G.
— and Caldwell, B.V.
Steroid hydroxylations by guinea-pig adrenal tissue fractions (143)532
—, Guerra, F. and McCarthy, J.L.
Further studies on the effect of calcium ions and corticosteroidogenesis. II. Adrenal mitochondrial swelling by Ca^{2+} (110)277
—, McCarthy, J.L. and Guerra, F.
Further studies on corticosteroidogenesis. IV. Inhibition of utilization of biological substrates for corticoid synthesis by high calcium concentrations. Possible role of transhydrogenase in corticosteroidogenesis (117)450
—, see Cortés, J.M.; see Guerra, F.
Perretta, M.
Different [^{14}C]formate and [6-^{14}C]orotic acid incorporation patterns in the nucleic acids of spleen from normal and polycythemic mice treated with erythropoietin (142)548
—, see Minguell, J.
Perrin, D.D.
— and Sharma, C.S.
The stability constants of metal–ATP complexes (127)35
Perry, G., see Jellinck, P.H.
Perry, M.P., see Kates, M.
Persky, S.
—, Ephrati-Elizur, E. and Bachrach, U.
Interaction of oxidized polyamines with DNA. II. Inactivation of transforming DNA (149)459
Person, P.
—, Felton, J.H. and Zipper, H.
Disruption of mitochondria and solubilization of cytochrome oxidase by NaOH and KOH (105)393
Persson, H., see Laurent, T.C.
Pertoft, H.
Gradient centrifugation on colloidal silica–polysaccharide media (126)594
—, see Blombäck, B.
Pesce, A., see Schito, G.C.
Petermann, M.L.
— and Bavlovec, A.
The subunits and structural RNA's of Jensen sarcoma ribosomes (114)264
—, see Schwartz, E.R.
Peters, D.S.
— and Matrone, G.
The propionate-activating system of rumen bacteria (137)478
Petersen, E., see Kröger, H.
Petersen, G.B.
— and Reeves, J.M.
An improved separation of pyrimidine oligonucleotides derived from DNA (129)438
Petersen, K.F., see Thiele, O.W.
Petersen, K.G., see Klink, F.
Petersen, R.O., see Baserga, R.
Peterson, E.W., see Mason, H.S.
Peterson, R.N.
—, Boniface, J. and Koch, A.L.
Energy requirements, interactions and distinctions in the mechanisms for transport of various nucleosides in Escherichia coli (135)771
— and Koch, A.L.
The relationship of adenosine and inosine transport in Escherichia coli (126)129
Pethica, B.A., see Demel, R.A.; see Standish, M.M.
Petitpas-Dewandre, A., see Verly, W.G.
Petkau, A.
— and Chelack, W.S.
Permeability of a thin phospholipid membrane to ions and tobacco mosaic virus (135)812
— and Parker, W.L.
Permeability of a thin phospholipid membrane to Coxsackie B2 virus (135)825
Petrásek, R., see Vavrečka, M.
Petrović, J., see Petrović, S.
Petrović, S.
—, Petrović, J. and Bayer, M.E.
Release of microsomal RNA's by macromolecular dextran sulfate (145)193
—, Petrović, J. and Kanazir, D.
Enzymatic depolymerization during isolation and the sedimentation properties of microsomal rapidly labelled RNA's (119)213
Pfab, F.K., see Nordwig, A.
Pfaff, E.
—, Klingenberg, M. and Heldt, H.W.
Unspecific permeation and specific exchange of adenine nucleotides in liver mitochondria (104)312
Pfleger, R.C.
—, Piantadosi, C. and Snyder, F.
The biocleavage of isomeric glyceryl ethers by soluble liver enzymes in a variety of species (144)633
Pfohl, R.J.
— and Giudice, G.

Pfohl, R.J. (continued)
The role of cell interaction in the control of enzyme activity during embryogenesis (142)263
Pfrogner, N.
—, Bradley, A. and Fraenkel-Conrat, H.
Action of cyclic phosphodiesterase from Escherichia coli on tobacco mosaic virus RNA (142)105
Pfuderer, P.
—, Cammarano, P., Holladay, D.R. and Novelli, G.D.
Helical polysome model (109)595
Philipps, G.R.
—, Herrera, M.G. and Renold, A.E.
Stimulation of metabolic activity of adipose tissue from fasted rats by prolonged incubation in vitro. II. Effects of physiologic levels of cortisol (106)234
—, see Herrera, M.G.
Philipson, L., see Brishammar, S.; see Öberg, B.
Phillips, G.O., see Balazs, E.A.; see Young, M.D.
Philpott, D.E., see Dowben, R.M.
Pho, D.B.
—, Olomucki, A. and Thoai, N.V.
L-Arginine oxygénase décarboxylante. IV. Incorporation de ^{18}O dans γ-guanidinobutyramide (118)311
Piantadosi, C., see Pfleger, R.C.
Piatigorsky, J.
— and Whiteley, A.H.
A change in the permeability and uptake of [^{14}C]uridine in response to fertilization in Strongylocentrotus purpuratus eggs (108)404
Picard, J.J.
—, Vandebroek, G., Heremans, J.F. and Defosse, G.
Studies on α_2-macroglobulin. III. Isolation and properties of Erinaceus α_2-macroglobulin (117)111
Pichinoty, F., see Pascal, M-C.
Pichler, A.G.
Some characteristics of the utilization of L-glutamic acid by Ehrlich ascites tumor cells (104)111
Piddington, R.
— and Moscona, A.A.
Precocious induction of retinal glutamine synthetase by hydrocortisone in the embryo and in culture. Age-dependent differences in tissue response (141)429
—, see Moscona, A.A.
Piérard, A., see Ramos, F.; see Stalon, V.
Pierce, J.G.
—, Rawitch, A.B., Brown, D.M. and Stanley, P.G.
Human thyroglobulin: Studies on the native and S-carboxymethylated protein (111)247
Pierson, D.J., see Baich, A.
Pietruszko, R.
— and Baron, D.N.
A staining procedure for demonstration of multiple forms of aldolase (132)203
Pigman, W., see Caldwell, R.C.; see Niedermeier, W.
Pihar, O.
Proteins as catalysts of CO_2 hydration (104)608
Pihl, A., see Damjanovich, S.; see Kleppe, K.; see Sanner, T.; see Sutherland, R.M.
Pik, C., see Boi-Doku, F.S.; see Sukumaran, P.K.
Pike, J.E., see Schneider, W.P.
Piker, E.G., see Lichtenstein, A.V.
Pikhelgas, V.Ya., see Torchinsky, Y.M.
Piña, E.
— and Tatum, E.L.
Inositol biosynthesis in Neurospora crassa (136)265
Pine, M.J.
Heterogeneity of protein turnover in Escherichia coli (104)439;
Kinetics of sulfur labeling of Escherichia coli: Formation of disulfide bonds and free N termini in the cellular proteins (142)526
Pinna, L.A.
—, Lorini, M., Moret, V. and Siliprandi, N.
Effect of oligomycin and succinate on mitochondrial metabolism of adenine nucleotides (143)18
—, see Lorini, M.
Pion, R., see Maubois, J.L.
Pion, R.J.
—, Jaffe, R.B., Wiqvist, N. and Diczfalusy, E.
Formation of dehydroepiandrosterone sulphate by previable human foetuses (137)584
Pistorius, E., see Trebst, A.
Piszkiewicz, D., see Metzger, R.P.
Pitot, H.C., see Shapot, V.
Pitout, M.J.
A deoxyribonuclease-resistant polynucleotide from maize (149)619
Pitra, C., see Krause, E.-G.
Pittard, J., see Gibson, F.
Pittman, J.G., see Martin, D.B.
Pizer, L.I.
Comparative enzymology of serine biosynthesis in mammalian systems (124)418
Plapp, R., see Kandler, O.
Platel, A., see Ueno, Y.
Plaut, G.W.E., see Giorgio, A.J.
Plaza, M., see Cabello, J.
Plechaty, M.
—, Gertler, M.M. and Guthrie, R.G.
Intramitochondrial uptake of ^{32}P in adenine nucleotides in congestive heart failure (127)524
Pochon, F.
—, Massoulié, J. et Michelson, A.M.
Polynucleotides. VII. Les DNA satellites du thymus de veau et "poly d(A–T)" de crabe (119)249
— and Michelson, A.M.
Polynucleotide analogues. XI. Poly N^1-methylguanylic acid and other methylated polynucleotides (145)321;
Polynucleotides. IX. Methylation of nucleic acids, homopolynucleotides and complexes (149)99
—, see Massoulié, J.; see Michelson, A.M.
Poddar, R.K., see Palchoudhury, S.R.
Podulso, S.E., see Suzuki, K.
Pohlman, D., see Heald, P.J.
Poillon, W.N.
— and Bearn, A.G.
The molecular structure of human ceruloplasmin: Evidence for subunits (127)407
—, see Clark, E.E.
Pokrajac, N.
— and Lossow, W.J.

The effect of tube feeding of glucose or corn oil on adipose tissue lipoprotein lipase activity and uptake of ^{14}C-labeled palmitic acid of chyle triglycerides in vitro (137)291
—, Lossow, W.J. and Chaikoff, I.L.
The effect of nutritional state on lipoprotein lipase activity in isolated rat adipose tissue cells (139)123
Poledne, R., see Vavrečka, M.
Polgár, L.
The effect of coenzyme on the S→N acyl migration in glyceraldehyde-3-phosphate dehydrogenase (118)276
Polglase, W.J.
—, Pun, W.T. and Withaar, J.
Lipoquinones of Escherichia coli (118)425
—, see Desai, I.D.
Politoff, A.
—, Socolar, S.J. and Loewenstein, W.R.
Metabolism and the permeability of cell membrane junctions (135)791
Pollak, R.D., see Rosenkranz, H.S.; see Schmidt, R.M.
Pollard, E.C.
— and Weller, P.K.
The effect of hydrostatic pressure on the synthetic processes in bacteria (112)573
—, see Grady, L.J.
Polli, E.E.
—, Corneo, G., Ginelli, E. and Bianchi, P.A.
Fractionation of calf thymus DNA by density gradient centrifugation (103)672
—, see Farina, M.V.
Polonovski, J., see Infante, R.
Polsinelli, M., see Sgaramella, V.
Polson, A.
The calculation of molecular weights from diffusion and viscosity data (140)197
— and Russell, B.W.
Recycling chromatography with zone sharpening (117)477
Polya, G.M., see Got, K.
Polya, J.B., see Got, K.
Pommier, J., see Nunez, J.
Ponticorvo, L., see Nicholson, J.F.
Poortmans, J.R.
—, Jeanloz, R.W. and Schmid, K.
3-S α_1-globulin levels of normal human serum and urine (133)363
—, Van Fraechem, J. and Segers, M.
Isolation and characterization of urinary albumin excreted after physical exertion (127)380
Popa, L.
—, Lăcătus, V., Popescu, M. and Portocală, R.
Rapid effect of low formaldehyde concentration on the chromatographic properties of nucleic acids (149)396
Pope, J.L.
—, Parkinson, T.M. and Olson, J.A.
Action of bile salts on the metabolism and transport of water-soluble nutrients by perfused rat jejunum in vitro (130)217
Popescu, M., see Popa, L.
Popkova, G.A., see Bergelson, L.D.
Poplawski, A., see Farbiszewski, R.
Popović, M.
Sphingosine and its lower homologues from bovine heart sphingomyelin fraction (125)179
Popp, R.A.
—, Heddle, J.G., Canning, R.E. and Allen, R.C.
Some physical and chemical properties of albumin esterase and albumin from mouse serum (115)113
Porath, J., see Karlsson, E.
Porra, R.J.
Porphyrinogen and corrin biosynthesis in Clostridium tetanomorphum (107)176
Portela, A.
—, Pérez, J.C., Luchelli, M., Stewart, P.A., Hajduk, T., Parisi, M. and Garrison, A.
Potassium and cesium effects on sodium efflux and oxygen consumption of muscle cells (109)495
Porter, G.A., see Fanestil, D.D.; see Fimognari, G.M.
Porter, J.W., see Yang, P.C.
Portman, O.W., see Howard, Jr., C.F.
Portocală, R., see Popa, L.
Posen, S., see Conyers, R.A.J.
Posner, B.I.
— and Raben, M.S.
Inhibition of the oxidation of leucine by hypoglycin (136)179
Post, D., see Stambaugh, R.
Post, R.L., see Bader, H.
Posternak, Th., see Falbriard, J.-G.; see Henion, W.F.; see Ho, R.J.
Posthuma, J.
— and Berends, W.
Energy transfer in aqueous solution (112)422
Potter, H., see Opit, L.J.
Potter, M., see Coleman, T.J.
Poucher, J.S., see Madison, J.T.
Poulos, A., see Adams, J.B.
Pousada, M., see Rosenthal, A.F.
Pouwels, P.H.
—, Jansz, H.S., Van Rotterdam, J. and Cohen, J.A.
Structure of the replicative form of bacteriophage ΦX174. Physicochemical studies (119)289
—, see Jansz, H.S.
Powell, S.S., see White, Jr., H.B.
Power, J., see Chiu, T.H.
Powning, R.F.
— and Irzykiewicz, H.
The effect of lysozyme on chitin oligosaccharides (124)218
Pradel, L.A., see Der Terrossian, E.; see Kassab, R.; see Thoai, N.V.
Prader, A., see Hsia, D.Y.Y.; see Semenza, G.
Prager, M.D.
— and Whigham, W.R.
Purification of human erythrocyte pyruvate kinase (132)181
Praissman, M., see Rupley, J.A.
Prajoux, V., see Cabello, J.
Prakash, O.
—, Rama Rao, R. and Sadana, J.C.
Purification and characterization of nitrite reductase from Achromobacter fischeri (118)426
Pramer, D., see Anderson, J.R.
Prasad Ghosh, H.
— and Preiss, J.
Isolation and characterization of glycogen from Arthrobacter sp. NRRL B 1973 (104)274
Pratt, J.M., see Das, P.K.

Preiss, J., see Prasad Ghosh, H.
Press, G.D., see Menzies, R.A.
Pressman, B.C., see Hempfling, W.P.
Pressman, D., see Roholt, O.H.
Pretlow, T.P.
— and Sherman, F.
Porphyrins and zinc porphyrins in normal and mutant strains of yeast (148)629
Previero, A.
—, Coletti-Previero, M.A. and Cavadore, J.C.
A reversible chemical modification of the tryptophan residue (147)453
—, Coletti-Previero, M.A. and Jollès, P.
Non-enzymatic cleavage of tryptophyl peptide bonds in peptides and proteins.
II. Release of a chemically modified tryptophan residue from model peptide by a mild basic treatment (124)400
Prezbindowski, K., see Cunningham, W.P.
Price, C.A.
— and Hirvonen, A.P.
Sedimentation rates of plastids in an analytical zonal rotor (148)531
—, see Still, C.C.
Price, T.D.
—, Ashman, D.F. and Melicow, M.M.
Organophosphates of urine including adenosine 3',5'-monophosphate and guanosine 3',5'-monophosphate (138)452
Prichard, J.S., see Parsons, D.S.
Pries, C.
—, Aumont, A. and Böttcher, C.J.F.
Analysis of phospholipids (125)277
Priesz, H.
— and Zillig, W.
Molecular weight of the 13-S subunit of DNA-dependent RNA polymerase from Escherichia coli (140)540
Prignot, J., see Masson, P.L.
Prins, H.K., see Loos, J.A.
Prior, I.A.M., see Hansen, R.P.
Přistoupil, T.I.
Microelectrophoresis of proteins on nitrocellulose membranes (117)475
Pritham, G.H., see Carroll, J.J.
Prockop, D.J., see Bhatnagar, R.S.; see Ebert, P.S.; see Rosenbloom, J.
Prokazova, N.V., see Bergelson, L.D.
Prokes, J., see Kithier, K.
Prokhovnik, S.J., see Darvey, I.G.
Prokopová, D.
— and Stojan, B.
Inhibition of collagen biosynthesis by posterior pituitary lobe extract (136)585
Prop, F.J.A., see Kwa, H.G.
Prosky, L., see Hoberman, H.D.
Prottey, C., see Gurr, M.I.
Proulx, P.R.
— and Van Deenen, L.L.M.
Acylation of lysophosphoglycerides by Escherichia coli (125)591;
Phospholipase activities of Escherichia coli (144)171
Pruitt, K.M.
—, Cantrell, J. and Boshell, B.R.
The effect of insulin derivatives on the insulin response of assays in vitro (115)329
Prusík, Z., see Meloun, B.
Prusoff, W.H., see Günther, H.L.
Prydz, H., see Gaarder, A., see Hvatum, M.
Pu, M., see Mann, J.D.
Pugliarello, M.G., see Romeo, D.
Puglisi, L., see Sólyom, A.
Pun, W.T., see Polglase, W.J.
Purcell, W.P.
Cholinesterase inhibitory prognoses of thirty-six alkyl substituted 3-carbamoylpiperidines (105)201
Purdie, J.E.
— and McIvor, R.A.
Modification of the esteratic activity of acetylcholinesterase by alkylation with 1,1-dimethyl-2-phenylaziridinium ion (128)590
Pukayastha, R.
— and Neelin, J.M.
Comparison of histones from avian erythroid tissues by zone electrophoresis (127)468
Puschendorf, B., see Grunicke, H.
Pütter, J.
— and Schmidt-Kastner, G.
Uber die Reaktion des Kallikrein-Inaktivators mit Elastin (127)538

Q

Quadri, S.M.H.
— and Hoare, D.S.
Pyruvate decarboxylase in photosynthetic bacteria (148)304
Quagliariello, E.
—, Palmieri, E., Alifano, A. and Papa, S.
3-Hydroxyanthranilic acid-mediated respiration in the inhibited respiratory chain (113)482
—, see Palmieri, F.; see Papa, S.; see Saccone, C.
Quale, J.R., see Kemp, M.B.
Quarfordt, S.H.
— and Goodman, DeW.S.
Heterogeneity in the rate of plasma clearance of chylomicrons of different size (116)382
Quertier, J., see Burny, A.; see Heilporn-Pohl, V.
Quilligan, J.J., see Murata, K.
Quin, L.D., see Shelburne, F.A.

R

Raben, M.S., see Posner, B.I.
Rabie, E.F., see Hassall, H.
Rabin, B.R., see Fisher, R.F.
Rabinovitz, M., see Honig, G.R.; see Waxman, H.S.
Rabinowitch, E., see Cederstrand, C.N.
Rabinowitz, J.L., see Kritchevsky, D.
Rabinowitz, M., see Rampersad, O.R.; see Sinclair, J.H.
Rabinowitz, Y.
— and Dietz, A.
Genetic control of lactate dehydrogenase and malate dehydrogenase isozymes in cultures of lymphocytes and granulocytes: Effect of addition of phytohemagglutinin, actinomycin D or puromycin (139)254
Rachmeler, M., see Gray, P.N.
Rachmilewitz, D.
—, Eisenberg, S., Stein, Y. and Stein, O.
Phospholipases in arterial tissue. I. Sphingomyelinase activity in human, dog, guinea pig, rat and rabbit arteries (144)624
Radda, G.K.
The chemistry of flavins and flavoproteins. II. Inhibition of the photoreduction of flavin nucleotides and analogues (112)448
—, see Gascoigne, I.M.
Radhakrishnamurthy, B.
—, Dalferes, Jr., E.R. and Berenson, G.S.
A simplified column for gel electrophoresis (107)380
—, Fishkin, A.F. and Berenson, G.S.
Glucose-containing glycopeptide from bovine aorta glycoprotein (101)129
Radhakrishnan, A.N., see Cherian, M.G.; see Satyanarayana, T.
Rafelson, Jr., M.E., see Booyse, F.M.; see Gerbeck, C.M.; see Schneir, M.L.; see Wilson, Jr., V.W.
Raff, R.A.
— and Wheat, R.W.
Occurrence of a 3-amino sugar in the cell wall of Citrobacter freundii 8090 (127)271
Ragab, H.
—, Beck, C., Dillard, C. and Tappel, A.L.
Preparation of rat liver lysosomes (148)501
Ragetli, H.W.J.
— and Weintraub, M.
Immuno-osmophoresis adapted for weakly charged antigens (111)522;
Agar derivatives for gel electrophoresis requiring reduced endosmotic liquid flow (112)160
Raghupaty, E., see Singh, V.N.
Rahman, Y.E.
Existence of a third ribonuclease in rat-liver particulates (119)470;
Studies on rat-liver ribonucleases. I. Intracellular localization of the alkaline ribonucleases (146)477
—, Howe, J.F., Nance, S.L. and Thomson, J.F.
Studies on rat-liver ribonucleases. II. Zonal centrifugation of acid ribonuclease; implications for the heterogeneity of lysosomes (146)484
Rahn, R.O., see Longworth, J.W.
Raina, A.
—, Jänne, J. and Siimes, M.
Stimulation of polyamine synthesis in relation to nucleic acids in regenerating rat liver (123)197
— and Telaranta, T.
Association of polyamines and RNA in isolated subcellular particles from rat liver (138)200
Rainey, J.M., see Cunningham, L.
Raison, J.K.
—, Henson, G. and Rienits, K.G.
The oxidation of gentisaldehyde by a NAD^+-specific, aromatic aldehyde dehydrogenase from rabbit liver (118)285
Raisz, L.G.
Effects of calcium on uptake and incorporation of amino acids in the parathyroid glands (148)460
RajBhandary, U.L., see Jackson, J.F.
Rajewsky, K.
Kreuzreagierende antigene Determinanten auf Lactatdehydrogenasen I und V durch Acetylierung (121)51
Rakhit, S., see Singh, K.
Rakitzis, E.T.
— and Mills, G.C.
Relation of red-cell hexokinase activity to extracellular pH (141)439
Ralph, R.K.
— and Clark, M.F.
Intracellular location of double-stranded plant viral RNA (119)29
—, Matthews, R.E.F. and Matus, A.I.
Effects of 2-thiouracil on the formation of double-stranded plant viral RNA (108)53
— and Wojcik, S.J.
Synthesis of double-stranded viral RNA by cell-free extracts from turnip yellow mosaic virus-infected leaves (119)347;
Effects of 2-thiouracil on synthesis of double-stranded turnip yellow mosaic virus RNA in cell-free extracts (129)625
—, see Baguley, B.C.; see Bergquist, P.L.; see Watson, J.D.; see Wevers, W.F.
Ramachandramurthy, P., see Takahashi, T.
Ramachandran, G.N.
—, Chandrasekaran, R. and Chandrasekaran, K.S.
The absolute configuration of glucosamine (148)317
— and Sasisekharan, V.
Refinement of the structure of collagen (109)314
—, Sasisekharan, V. and Ramakrishnan, C.
Molecular structure of polyglycine II (112)168
— and Venkatachalam, C.M.
The stability of the two-bonded collagen triple helix (120)457
Ramakrishna Kurup, C.K.
—, Raman, T.S. and Ramasarma, T.

Reactivation of reduced ribonuclease by rat-liver microsomes and cytochrome c (113)255
Ramakrishnan, C., see Ramachandran, G.N.
Raman, T.S., see Ramakrishna Kurup, C.K.
Ramanathan, N.
—, Mohanaradhakrishnan, V. and Nayudamma, Y. The effect of γ-radiation on soluble and insoluble collagens (102)533
—, see Mohanaradhakrishnan, V.
Rama Rao, P.B., see Permual, A.S.
Rama Rao, R., see Prakash, O.
Ramasarma, T., see Joshi, V.C.; see Ramakrishna Kurup, C.K.
Ram Chandra, G.
— and Varner, J.E.
Gibberellic acid controlled metabolism of RNA in aleurone cells of barley (108)583
Ramel, A., see Richter, J.
Ramírez, J.M.
—, Del Campo, F.F., Paneque, A. and Losada, M. Ferredoxin–nitrite reductase from spinach (118)58
—, see Losada, M.; see Paneque, A.
Ramos, F.
—, Stalon, V., Piérard, A. and Wiame, J.M. The specialization of the two ornithine carbamoyltransferases of the Pseudomonas (139)98
—, see Stalon, V.
Rampersad, O.R.
—, Zak, R., Rabinowitz, M., Wool, I.G. and DeSalle, L.M.
Isolation and characterization of ribonucleoprotein particles from heart muscle (108)95
Ramponi, G., see Melani, F.
Ramuz, M., see Chambon, P.; see Doly, J.
Rand-Meir, T.
—, Spiegelstein-Klarfeld, H., Rosen, E. and Lichtenstein, N.
Inhibition of glutamine synthesis and δ-glutamyl transfer by α-N-ethyl-L-glutamine (148)713
Rangel, H.
— et Lapresle, C.
Etude de la specificité sur la chaîne B de l'insuline des cathepsines D et E de lapin (128)372
Rankin, Jr., C.T., see Spragg, S.P.
Ranney, H.M., see Bookchin, R.M.
Rao, C.N.R., see Bhaskar, K.R.
Rao, G.A.
— and Johnston, J.M.
Purification and properties of triglyceride synthetase from the intestinal mucosa (125)465;
Studies of the formation and utilization of bound CoA in glyceride biosynthesis (144)25
—, see Johnston, J.M.
Rao, K.S.
— and Olson, R.E.
The effect of excessive vitamin A upon the metabolism of isoprenoid compounds in rat liver (136)406
Rao, P.S.
— and Nicholas, D.J.D.
Studies on the incorporation of CO_2 by cells and cell-free extracts of Nitrosomonas europaea (124)221
Rao, S.L.N., see Malathi, K.
Rapaport, D., see Zomzely, C.E.
Rapin, A.M.C., see Nikaido, H.
Rapoport, G.
—, Chambert, J.R. et Dedonder, R.
Iodination de la lévane-sucrase de Bacillus subtilis (132)330
Rappaport, H.P., see Yu, C.-T.
Rappaport, I.
Some studies of the infectious process with MS2 bacteriophage (103)486
Rappoport, D.A., see Yamagami, S.
Rappoport, S., see Lapidot, Y.
Rapport, M.M.
—, Schneider, H. and Graf, L.
Cytilipin R: A pure hapten isolated from rat lymphosarcoma (137)409
—, see Gatt, S.
Rasch, R., see Kluge, H.
Rasmussen, H., see Kimmich, G.A.
Ratledge, C.
The production of an N-acylanthranilic acid from shikimic acid and the effect of iron deficiency on the biosynthesis of other aromatic compounds by Aerobacter aerogenes (141)55
Ratliff, R.L.
— and Hayes, F.N.
Enzymatic synthesis of a three-section block copolymer of thymidylate, deoxyguanylate and deoxyadenylate (134)203
Ratner, M., see Clouet, D.H.
Ratney, R.S.
Chemistry of the cell walls of Bacillus anthracis: The effect of penicillin (101)1
Rau, W.
—, Feuser, B. and Rau-Hund, A.
Substitution of p-chloro- or p-hydroxymercuribenzoate for light in carotenoid synthesis by Fusarium aquaductuum (136)589
Rau-Hund, A., see Rau, W.
Raulin, J.
—, Loriette, C., Flanzy, J. and Rerat, A.
Distribution des acides gras cis et trans dans les triglycerides de la lymphe de porc (116)385
Raval, D.N.
— and Schellman, J.A.
The activation of chymotrypsinogen. Optical rotation studies (107)463
Rawitch, A.B., see Pierce, J.G.
Ray, D.K.
— and Hutchinson, F.
Inactivation of dry ribonuclease by ionizing radiation. I. Search for the breakage of sulfur bridges (147)347;
Inactivation of dry ribonuclease by ionizing radiation. II. A suggested mechanism (147)357
Razin, A., see Hershko, A.; see Mager, J.
Read, A.E., see Austad, W.
Reboud, J.P.
—, Marchis-Mouren, G., Paséro, L., Cozzone, A. et Desnuelle, P.
Adaptation de la vitesse de biosynthèse de l'amylase pancréatique et du chymotrypsinogène à des régimes en amidon ou en protéines (117)351
Rechcigl, Jr., M., see Evans, W.H.
Recondo, E.
—, Dankert, M. and Passeron, S.

Recondo, E. (continued)
Preparation of adenosine 5'-phosphoropiperidate. Improved method for the synthesis of adenosine diphosphate D-hexoses (107)129
Reddy, W.J., see Goldstein, S.
Redfearn, E.R.
Redox reactions of ubiquinone in Rhodospirillum rubrum (131)218
— and Whittaker, P.A.
The determination of the oxidation–reduction states of ubiquinone (coenzyme Q) in rat-liver mitochondria (118)413
—, see Burgos, J.; see Franklin, T.J.; see Jones, C.W.; see Whittaker, P.A.
Reed, C.F., see Rega, A.F.
Reed, L.L., see Ammann, E.C.B.
Reeder, R., see Bell, E.
Rees, M.
— and Nason, A.
Incorporation of atmospheric oxygen into nitrite formed during ammonia oxidation by Nitrosomonas europaea (113)398
Reese, C.B.
— and Sulston, J.E.
The methylation of guanylyl-(3'→5')-uridine (149)293
—, see Griffin, B.E.
Reese, E.T.
— and Avigad, G.
Purification of levansucrase by precipitation with levan (113)79
Reeves, J.M., see Petersen, G.B.
Reff, A., see Halac, Jr., E.
Rega, A.F.
—, Weed, R.I., Reed, C.F., Berg, G.G. and Rothstein, A.
Changes in the properties of human erythrocyte membrane protein after solubilization by butanol extraction (147)297
Rege, D.V., see Dubash, P.J.
Reggiani, M., see Calendi, E.
Reich, E., see Gibson, F.
Reichard, P., see Larsson, A.
Reichlin, M., see Antonini; E.
Reichman, E.S., see Skipski, V.P.
Reid, E., see El-Aasser, A.A.
Reinecke, C.J., see Verhoef, N.J.
Reinhammar, B., see Hofsten, B.V.
Reiser, R.
— and Fu, H.C.
Acyl group exchange in the intestinal lumen during fat digestion (116)563
Reisner, A.H.
— and Macindoe, H.
Immunological evidence indicating conformational differences between surface-bound and solubilized serotypic antigen of Paramecium (140)529
Reiss, I., see Weber, A.
Reistad, R., see Helgeland, K.
Reith, W.S., see Brown, B.L.
Rejal, T.H., see Simon, L.N.
Reman, F.C.
— and Van Deenen, L.L.M.
The action of some synthetic lysolecithins and lecithins on erythrocytes and lipid bilayers (137)592
Remer, A.K., see Field, J.B.
Remy, C.N.
Ribonucleotides and ribonucleosides as methyl acceptors for S-adenosylmethionine: (amino- and thio)purine methyltransferases. Incorporation of 6-amino-2-methylaminopurine into RNA's (138)258
Remy, P.
—, Dirheimer, G. et Ebel, J-P.
Analogues de nucléosides polyphosphates. I. Synthèse de l'adénosine 5'-phosphohypophosphate (136)99
Rendel, J., see Aalund, O.
Rendi, R.
Water extrusion in isolated subcellular fractions. IV. Simplified system to study the ATP-dependent reaction (102)306;
Na^+, K^+ requiring ATPase activity. III. Purification and properties of the ADP–ATP exchange enzyme (118)621;
The effect of K^+ on dephosphorylation of an acid-stable phosphorylated intermediate of the ($Na^+ + K^+$)-requiring ATPase activity (128)394;
Water extrusion in isolated subcellular fractions. VI. Osmotic properties of swollen phospholipid suspensions (135)333
Renkonen, O.
Individual molecular species of phospholipids. III. Molecular species of ox-brain lecithins (125)288;
Individual molecular species of phospholipids. IV. Gas–liquid chromatography of different types of diglyceride acetates derived from ox-brain lecithins (137)575
Renold, A.E.; see Crofford, O.B.; see Herrera, M.G.; see Ho, R.J.; see Philipps, G.R.
Renthal, R.D., see Rupley, J.A.
Renwick, A.G.C.
— and Engel, L.L.
The partial purification of 17α- and 17β-estradiol dehydrogenase activities from chicken liver (146)336
Rerat, A., see Raulin, J.
Reshef, L.
— and Shapiro, B.
Depletion and regeneration of fatty acid-absorbing capacity of adipose tissue and liver particles (125)456
Resnick, B., see Cory, J.G.
Ressler, N.
— and Stitzer, K.L.
Starch-gel investigations of the relationship between dehydrogenase proteins (146)1
—, Stitzer, K.L. and Ackerman, D.R.
Reactions of the lactate dehydrogenase X-band in human sperm with homologous and heterologous antisera (139)507
Retief, F.P., see Gottlieb, C.W.
Reyes, P.
— and Heidelberger, C.
Fluorinated pyrimidines. XXV. The inhibition of thymidilate synthetase from Ehrlich ascites carcinoma cells by pyrimidine analogs (103)177
Reynolds, C.A.
— and Huisman, T.H.J.
Hemoglobin Russ or $\alpha_2^{51\ Arg}\beta_2$ (130)541
Reynolds, M.L., see Anderson, B.M.
Rhoads, D.G., see Morgan, R.S.
Rhodes, J.B.
—, Eichholz, A. and Crane, R.K.

Studies on the organization of the brush border in intestinal epithelial cells. IV. Aminopeptidase activity in microvillus membranes of hamster intestinal brush borders (135)959
Rialdi, G., see Schito, G.C.
Ribadeau-Dumas, B., see Maubois, J.L.
Ricard, J.
— et Nari, J.
Contribution à l'étude des mécanismes de la dégradation de l'acide β-indolylacétique par la peroxydase de raifort (113)57; The formation and reactivity of peroxidase compound III (132)321
Rich, A., see Manner, G.
Rich, M.A., see Cory, J.G.
Richards, B.M., see Palau, J.
Richards, F.F.
— and Haber, E.
Antibodies to relatively homogeneous haptens: The temporal pattern of their antigen-binding energies (140)558
Richert, D.A., see Tarentino, A.L.
Richmond, A.
— and Biale, J.B.
Protein and nucleic acid metabolism in fruits. II. RNA synthesis during the respiratory rise of the avocado (138)625
Richmond, V.
Isolation of the B and C chains from S-sulfonated α-chymotrypsin (127)499
Richter, D., see Klink, F.
Richter, E., see Grunicke, H.
Richter, G., see Galling, G.
Richter, J.
—, Koller, F., Ramel, A. and Thürkauf, M.
Observations on electron micrographs of DNA (123)286
—, see Läuger, P.
Rickes, E.L., see Dulaney, E.L.
Ricketts, C.R., see Carney, S.A.
Riddiford, C.L.
— and Jennings, B.R.
Discussion on the shape of bovine plasma albumin (126)171
Ridley, S.M.
—, Thornber, J.P. and Bailey, J.L.
A study of the water-soluble proteins of spinach beet chloroplasts with particular reference to Fraction I protein (140)62
Riekkinen, P.J.
—, Ekfors, T.O. and Hopsu, V.K.
Purification and characteristics of an alkaline protease from rat submandibular gland (118)604
Rienits, K.G.
A light- and cysteine-activated ATP–P_i exchange reaction in chloroplasts and its relationship to ATPase and photophosphorylation (143)595
—, see Jeffrey, P.L.; see Raison, J.K.
Riesz, P., see Ormerod, M.G.
Rifkin, D.
— and Konigsberg, W.
Characterization of tryptic peptides from hemoglobin of chimpanzee (104)457
Rigby, B.J.
Relation between the shrinkage of native collagen in acid solution and the melting temperature of the tropocollagen molecule (133)272; Increases with time in the thermal stability rat-tail tendon stored in 0.9% NaCl (140)548
Riggs, A., see Sullivan, B.
Riley, F.L., see Du Buy, H.G.
Říman, J.
—, Trávníček, M. and Vepřek, L.
Template-active RNA isolated from an oncogenic virus (138)204
Rimon, A.
— and Sela, M.
Chemical modification of human erythrocytes by attachment of tyrosine and alanine peptides (124)408
— and Shamash, Y.
Resolution of plasma fraction IV components by chromatography on DEAE-Sephadex (121)26
—, see Shamash, Y.
Risinger, G.E.
— and Pell, F.E.
On the question of biologically active fluorescent derivatives of thiamine (107)374
Rissetti, S., see Luxoro, M.
Ristow, H.
— and Köhler, K.
Polysomal precursors in KB cells. I (123)265; mRNA associated with polysomes, ribosomes and subribosomal particles in KB cells (142)65
Rittenberg, D., see Nicholson, J.F.
Ritter, C.
— and Elkin, J.
Low-temperature spectroscopy of ascites cells and mitochondria (143)269
— and Paddle, B.
Testosterone and hydrocortisone-stimulated responses of reduced pyridine nucleotide fluorescence in prostates cultured from castrate rats (143)547
Rivera, P., see Córdoba, F.
Ro, T.S.
— and Busch, H.
Concentration of [^{14}C]actinomycin D in various tissues following intravenous injection (108)317; Studies on RNA polymerase of nuclear fractions of regenerating liver (134)184
Robberson, B., see Schroeder, W.A.
Robbins, E., see Borun, T.W.
Robbins, F.M.
—, Andreotti, R.E., Holmes, L.G. and Kronman, M.J.
Inter- and intramolecular interactions of α-lactalbumin. VII. The hydrogen ion titration curve of α-lactalbumin (133)33
—, Kronman, M.J. and Andreotti, R.E.
Inter- and intramolecular interactions of α-lactalbumin. V. The effect of amidination on association and aggregation (109)223
—, see Kronman, M.J.
Robbins, J.
—, Salvatore, G., Vecchio, G. and Ui, N.
Thyroglobulin and 27-S iodoprotein. Iodination and ultracentrifugal heterogeneity (127)101
Robbins, P.W., see Wright, A.
Roberton, A.M., see Griffiths, D.E.
Roberts, D.W.A.
— and Perkins, H.J.

Roberts, D.W.A. (continued)
The incorporation of the two carbons of acetate and glycine into the phorbide and phytol moieties of chlorophylls a and b (127)42
Roberts, E.R., see Harris, P.L.
Roberts, N.A.
—, Gray, G.W. and Wilkinson, S.G.
Release of lipopolysaccharide during the preparation of cell walls of Pseudomonas (135)1068
Roberts, P.S.
— and Burkat, R.K.
The stabilizing effect of neutral salts on plasmin (113)193;
The effects of guanidine compounds on the activation of human plasminogen by streptokinase and on the rates of hydrolysis of p-toluenesulfonyl-L-arginine methyl ester by plasmin and activator (118)592
Roberts, S., see Hanking, B.M.; see Zomzely, C.E.
Roberts, W.K.
Studies on RNA synthesis in Ehrlich ascites cells. Extraction and properties of labeled RNA (108)474
Robertson, A.F.
Lecithinase and lysolecithinase activity in rat tissue (116)379
Robertson, J.M., see Bergquist, P.L.
Robertson, W. van B., see Kofoed, J.A.
Robin, Y., see Thoai, N.V.
Robinson, D.
— and Abrahams, H.E.
β-D-xylosidase in pig kidney (132)212
Robinson, J., see Newsholme, E.A.
Robinson, J.W.L.
Les relations entre les ions de sodium et l'absorption intestinale d'acides aminés (126)61
Robinson, M.G.
—, Weiss, J.J. and Wheeler, C.M.
Irradiation of deoxyribonucleohistone solutions. I, Amino acid destruction (124)176;
Irradiation of deoxyribonucleohistone solutions. II. Labilization of the DNA–histone linkage (124)181
Robinson, W.G., see Gupta, N.K,
Roboz Einstein, E., see Nakao, A.
Roche, J., see Le Gal, Y.; see Nunez, J.; see Thoai, N.V.; see Viscidi, E.
Rodén, L.
— and Markovitz, A.
Isolation of 3-O-β-D-glucuronosyl-D-galactose from capsular polysaccharide of Escherichia coli K12 (127)252
Röder, A., see Bayer, E.
Rodionova, N.P.
— and Shapot, V.S.
RNA's of the endoplasmic reticulum of animal cells (129)206
Roe, J.Y.K., see Zobel, C.R.
Roelofs, M.J., see Knight, K.L.
Roels, O.A., see Guha, A.
Rogeness, G.A.
—, Krugman, L.G. and Abood, L.G.
The interaction of the psychotomimetic glycolate esters with calcium, ATP and lecithin monolayers (125)319
Rogers, P.L., see Dean, A.C.R.
Rogerson, Jr., D.L., see Rushizky, G.W.
Roholt, O.A.
— and Pressman, D.
A differential method for determining the relative reactivity to iodination of different tyrosyl residues in a protein molecule (147)1
Roizman, B., see Borman, G.S.
Rolland, M., see Lissitzky, S.
Romanowska, E.
— and Mulczyk, M.
Chemical studies on the specific fragment of Shigella sonnei phase I (136)312
Romeo, D.
—, Stagni, N., Sottocasa, G.L., Pugliarello, M.G., De Bernard, B. and Vittur, F.
Lysosomes in heart tissue (130)64
Ronca, G.
—, Ipata, P.L. and Bauer, C.
Inactivation of adenosine deaminase by fluorodinitrobenzene (122)378
Roncari, D.A.K.
— and Hollenberg, C.H.
Esterification of free fatty acids by subcellular preparations of rat adipose tissue (137)446
—, see Angel, A.
Ronea, G.
Competitive inhibition of adenosine deaminase by urea, guanidine, biuret, and guanylurea (132)214
Rörsch, A., see Naber, J.E.
Rørth, M.
— and Jensen, P.K.
Determination of catalase activity by means of the Clark oxygen electrode (139)171
Rosa, U.
—, Pennisi, F., Bianchi, R., Federighi, G. and Donato, L.
Chemical and biological effects of iodination on human albumin (133)486
Rosano, C.L.
—, Hurwitz, C. and Peabody, R.A.
Effect of preincubation with streptomycin on protein synthesis in vitro (114)188
—, see Hurwitz, C.
Roschupkin, D.I., see Skulachev, V.P.
Roscoe, D.H., see Haslam, E.A.
Rose, G., see Schubert, K.
Rose, H.G.
In vitro precipitation of particulate radioisotopic cholesterol from human serum (144)686
— and Frenster, J.H.
Composition and metabolism of lipids within repressed and active chromatin of interphase lymphocytes (106)577
Rose, H.M., see Rosenkranz, H.S.
Rosell Pérez, M., see Hedeskov, C.J.; see Søvik, O.
Rosén, C.G.
— and Fedorcsák, I.
Studies on the action of diethyl pyrocarbonate on proteins (130)401
Rosen, E., see Davidov, E.; see Rand-Meir, T.
Rosen, L.
— and Novelli, G.D.
Ribonuclease-resistant incorporation of phenylalanine into protein by a soluble system from trout liver (145)218
Rosenberg, H.

— and Ennor, A.H.
On the biosynthesis of L-serine ethanolamine phosphate in the chicken (115)23
— and La Nauze, J.M.
The metabolism of phosphonates by microorganisms. The transport of aminoethylphosphonic acid in Bacillus cereus (141)79
—, see La Nauze, J.M.; see Liang, C.R.
Rosenberg, I.H.
—, Coleman, A.L. and Rosenberg, L.E.
The role of Na^+ in the transport of amino acids by the intestine (102)161
Rosenberg, L.E.; see Finerman, G.A.M.; see Rosenberg, I.H.
Rosenberg, P., see Condrea, E.
Rosenberger, R.F.
Derepression of oxaloacetate 4-carboxylyase synthesis in Salmonella typhimurium (122)365
—, see Yashphe, J.
Rosenbloom, J.
—, Bhatnagar, R.S. and Prockop, D.J.
Hydroxylation of proline after the release of proline-rich polypeptides from ribosomal complexes during uninhibited collagen biosynthesis (149)259
—, see Bhatnagar, R.S.
Rosenbusch, J.P.
—, Flanagan, B. and Nichols, Jr., G.
Active transport of amino acids into bone cells (135)732
Rosenfeld, M.
Cascading ultrafiltration of proteins (107)148
Rosenkranz, H.S.
An anomalous DNA component in hydroxyurea-treated Escherichia coli (129)618
—, Carr, H.S. and Pollak, R.D.
Studies with hydroxyurea. VI. Effects of hydroxyurea on the metabolism of sensitive and resistant strains of Escherichia coli (149)228
—, Carr, H.S. and Rosenkranz, S.
An alteration of the DNA isolated from Escherichia coli treated with hydroxylamine (119)434
—, Garro, A.J., Levy, J.A. and Carr, H.S.
Studies with hydroxyurea. I. The reversible inhibition of bacterial DNA synthesis and the effect of hydroxyurea on the bactericidal action of streptomycin (114)501
—, Mednis, A., Marks, P.A. and Rose, H.M.
Metabolic effects of phenethyl alcohol on mammalian cells (149)513
—, see Schmidt, R.M.
Rosenkranz, S., see Rosenkranz, H.S.
Rosensweig, N.S.
—, Cocco, A.E. and Hendrix, T.R.
A comparison of the effect of sodium and lithium on the absorption of glucose and xylose in vivo (109)312
Rosenthal, A.F.
— and Atassi, M.Z.
Specific reduction of carboxyl groups in peptides (147)410
— and Pousada, M.
Inhibition of particulate phosphatidate phosphohydrolase by an analogue of its substrate (125)265
Rosenthal, H.L.
—, Haessler, I.E. and Hill, R.C.
Resolution of multiple cyanocobalamin-binding components in serum (104)46
Rosenthal, S.L.
—, Edelman, P.M. and Schwartz, I.L.
A method for the preparation of skeletal muscle sarcolemma (109)512
Roskoski, Jr., R.
— and Steiner, D.F.
Cycloheximide and actinomycin D inhibition of estrogen-stimulated sugar and amino acid transport in rat uterus (135)347;
The effect of estrogen on sugar transport in the rat uterus (135)717;
The effect of estrogen on amino transport in rat uterus (135)727
Rosmus, J.
—, Deyl, Z. and Drake, M.P.
Studies on the structure of collagen. I. The sequence analysis of peptide released by pronase (140)507
—, see Deyl, Z.
Ross, C., see Wolcott, J.H.
Ross, J.E., see Leventer, L.L.
Rosser, R.J., see Ogasawara, N.
Rosset, R.
— et Monier, R.
Instabilité de la séquence 3'-hydroxyle terminale du tRNA chez les microorganismes. I. Renouvellement de l'AMP terminal chez Saccharomyces cerevisiae (108)376;
Instabilité de la séquence 3'-hydroxyle terminale du tRNA chez les microorganismes. II. Etude du renouvellement de l'AMP terminal chez Escherichia coli en fonction du taux de croissance (108)385
Rossi, C.
— and Azzone, G.F.
H^+/O ratio during Ca^{2+} uptake in rat-liver mitochondria (110)434
Rossi, F.
— and Zatti, M.
The mechanism of the respiratory stimulation during phagocytosis in polymorphonuclear leucocytes (113)395;
Effect of phagocytosis on the carbohydrate metabolism of polymorphonuclear leucocytes (121)110
—, see Zatti, M.
Rossi Fanelli, A., see Antonini, E.
Rossignol, B.
—, Hervé, B. et Clauser, H.
Biosynthèse d'UDP N-acétylhexosamine par un extrait de glandes sous-maxillaires de mouton (117)269
Rossini, L., see Terzuolo, C.A.
Rosso, R.G., see Aronson, L.D.
Roth, J.A.
—, Chassy, B.M. and McCormick, D.B.
Coenzymatic activities of 2-anilino and 2-morpholino derivatives of FMN with yeast NADPH diaphorase (118)429
Roth, J.S.
— and Askew, J.
Studies on the phosphorylation of thymidine and thymidilate by the developing chick embryo (130)28
Roth, R.
— and Sussman, M.
Trehalose synthesis in the cellular slime

Roth, F. (continued)
mold Dictyostelium discoideum (122)225
Rothblat, G.H.
—, Hartzell, Jr., R.W., Mialhe, H. and Kritchevsky, D.
The uptake of cholesterol by L5178Y tissue-culture cells: Studies with free cholesterol (116)133
— and Kritchevsky, D.
The excretion of free and ester cholesterol by tissue-culture cells: Studies with L5178Y and L cells (144)423
Rothman, L.B.
— and Cabib, E.
Inhibition of yeast growth by fluoride and its reversal by phosphoric esters: An effect of pH (117)482
Rothschild, M.A., see Oratz, M.
Rothstein, A., see Dilley, R.A.; see Jones, W.B.G.; see Rega, A.F.
Rotilio, G., see Modovì, B.
Rotstein, J.
— and Seltzer, J.
The dissolution and fractionation of bovine sclera (101)273
Rott, R., see Drzeniek, R.; see Seto, J.T.
Rottenberg, D.A.
— and Boursnell, J.C.
Boar seminal plasma proteins. V. Carbohydrates and amino acids of the water-insoluble glycoprotein ("Fraction B") from boar seminal plasma (117)157
Rotunno, C.A.
—, Kowalewski, V. and Cereijido, M.
Nuclear spin resonance evidence for complexing of sodium in frog skin (135)170
Roukema, P.A., see Heijlman, J.
Rous, S., see Abelin, G.
Rouvière, J., see Naono, S.
Rouzeau, C., see David, S.
Rovery, M., see Charles, M.; see Gratecos, D.; see Guy, O.; see Maroux, S.
Rowlands, J.R., see Gause, E.M.
Rownd, R.H.
The buoyant density of 5-bromouracil-labeled DNA (134)464
Roy, A.B., see Banerjee, R.K.
Roy, A.K.
— and Neuhaus, O.W.
Proof of the hepatic synthesis of a sex-dependent protein in the rat (127)82
—, Neuhaus, O.W. and Harmison, C.R.
Preparation and characterization of a sex-dependent rat urinary protein (127)72
— and Zubay, G.
RNA synthesis stimulated by sonicated nucleohistone (129)403
Roy, S.C., see Basu, S.K.; see Chatterjee, S.K.
Roy-Burman, P.
—, Roy-Burman, S. and Visser, D.W.
Utilization of 5,6-dihydrouridine 5'-triphosphate in the reaction catalyzed by Escherichia coli RNA polymerase (142)355
—, see Smith, D.A.
Roy-Burman, S., see Roy-Burman, P.
Roychoudhurry, R.
—, Datta, A. and Sen, S.P.
Mechanism of action of plant growth substances. The role of nuclear RNA in growth substance action (107)346
Rozijn, Th.H., see Tonino, G.J.M.
Rozprimová, L., see Macholán, L.
Rubenfeld, S., see Slobodian, E.S.
Rubin, M.B., see Lamprecht, S.
Rubino, A., see Semenza, G.
Rubinstein, D.
Photoinduced absorption changes at 520 nm in Chlorella and their relationship to the two-pigment system of photosynthesis (109)41
Rudin, L.
Partition studies on nucleic acids. III. Renatured DNA in the dextran–polyethyleneglycol system (134)199
— and Albertsson, P.Å.
A new method for isolation of DNA from microorganisms (134)37
Rudner, R.
—, Lin, H.J., Hoffmann, S.E.M. and Chargaff, E.
Studies on the loss and the restoration of the transforming activity of the DNA of Bacillus subtilis (149)199
—, Shapiro, H.S. and Chargaff, E.
Studies on the nucleotide arrangement in DNA's. X. Frequency and composition of pyrimidine isostichs in microbial DNA's and in the DNA of Escherichia coli phage T 3 (129)85
Rudney, H., see Ostroy, S.E.
Ruíz-Amil, M., see Fernández, M.J.
Rumberg, B.
Evidence for the participation of cytochrome b in the electron-transport system of photosynthesis (102)354
Rümke, P., see Kwa, H.G.
Runyan, W.S.
—, Fardy, M.A. and Geyer, R.P.
A screw cap CO_2 trap (141)421
Rupley, J.A.
—, Renthal, R.D. and Praissman, M.
Concentration difference spectra in the dimerization of insulin (140)185
Rurainski, H.J., see Kok, B.
Rusch, H.P., see Braun, R.; see Brewer, E.N.; see Cummins, J.E.; see Mittermayer, C.
Rusconi, A.
Different binding sites in DNA for actinomycin and daunomycin (123)627
— and Calendi, E.
Action of daunomycin on nucleic acid metabolism in HeLa cells (119)413
Rushizky, G.W.
—, Greco, A.E. and Rogerson, Jr., D.L.
Method for the large-scale preparation of bacteriophage MS2 (108)142
Russ, G., see Kováč, L.
Russel, B.W., see Polson, A.
Russel, J.R., see Brown, C.B.
Russell, G.K.
— and Gibbs, M.
Partial purification and characterization of two fructose diphosphate aldolases from Chlamydomonas mundana (132)145
Russell, P.J., see Chiu, C.S.; see Su, S.; see Yue, K.T.N.
Russi, S., see Ballio, A.
Rutgeers, M-J., see Wattiaux-De Coninck, S.
Ruttenberg, G.J.C.M., see Borst, P.; see Van Bruggen, E.F.J.
Ryan, A.M.
Enhanced resistance to ultraviolet

irradiation in bacterial populations exposed to periodate (134)197;
Cross-induction of Escherichia coli lysogens by an ultraviolet irradiation product. I. The dispensability of concurrent macromolecular syntheses in the formation of a metabolically unstable inducer (138)140
Ryan, L.C.
—, Carubelli, R., Caputto, R. and Trucco, R.E.
Structure of neuramin-lactose sulfate (101)252
Rybarska, J., see Ostrowski, W.
Rybová, R., see Metlička, R.
Rychlík, I.
Release of lysine peptides by tRNA puromycin from polylysyl-tRNA in the presence of ribosomes (114)425
—, Chládek, S. and Žemlička, J.
Release of peptide chains from the polylysyl-tRNA–ribosome complex by cytidylyl-(3'→5')-2'(3')-O-glycyladenosine (138)640

S

Sabesin, S.M., see Hyams, D.E.
Sabeur, G., see Dirheimer, G.
Sabine, J.R.
—, Abraham, S. and Chaikoff, I.L.
Lack of feedback control of fatty acid synthesis in a transplantable hepatoma (116)407
Sable, H.Z., see Mieyal, J.J.
Saccone, C.
—, Gadaleta, M.N. and Quagliariello, E.
Effect of atractyloside on nucleoside triphosphate incorporation into RNA of rat-liver mitochondria (138)474
—, see Kroon, A.M.
Sachs, G.
—, Shoemaker, R. and Hirschowitz, B.I.
The action of amytal on frog gastric mucosa (143)522
Sadana, J.C., see Prakash, O.
Saddi, R.
— and Von der Decken, A.
Effect of iron administration on the incorporation of [^{14}C]leucine into ferritin by rat-liver systems (111)124
Sadron, C., see Chambron, J.
Sagaert, L., see Banerjee, R.
Sagar, P., see Kapoor, N.K.
Sage, J., see Bresnick, E.
Sahai Srivastava, B.I.
Studies on nucleic acids from healthy and tumorous tomato stem tissue (103)349
Sahib, M.K.
— and Krishna Murti, C.R.
Induction of histidine-degrading enzymes in protein-starved rats (149)615
Saito, H., see Takahashi, H.
Saito, K.
— and Asada, Y.
Fatty acid composition of skin surface lipids and resident bacterial lipids (137)581
Sakabe, K.
— and Okazaki, R.
A unique property of the replication region of chromosomal DNA (129)651
Sakagami, T., see Akiyama, M.
Sakai, H.
Studies on sulfhydryl groups during cell division of sea-urchin eggs. VII. Electron transfer between two proteins (102)235; Studies on sulfhydryl groups during cell division of sea-urchin eggs. VIII. Some properties of mitotic apparatus proteins (112)132
Sakamoto, Y., see Wada, F.
Sakurai, T.
— and Hosoya, H.
Charge-transfer complexes of NAD analogues and flavin mononucleotide (112)459
Salach, J.
—, Tisdale, H.D., Singer, T.P. and Bader, P.
Inhibitors of NADH–ubiquinone reductase from mitochondria (143)281
Salce, L.
— and Goodman, I.
A thiazoline derived from pantetheine (107)126
Sale, A.J.H.
— and Hamilton, W.A.
Effects of high electric fields on micro-organisms. I. Killing of bacteria and yeasts (148)781
—, see Hamilton, W.A.
Salganik, R.I.
—, Dashkevich, V.S. and Dymshits, G.M.
Studies of replicating DNA of regenerating rat liver using chemical modifications with water-soluble carbodiimide (149)603
—, see Drevitch, V.F.
Sallach, H.J., see Walsh, D.A.
Sallon, M.R.J., see Cho, K.Y.
Salmon, B.J., see Somberg, E.W.
Salomon, R., see Kaye, A.M.
Salser, J.S.
— and Balis, M.E.
Investigations on amino acids bound to DNA (149)220
Saltman, P., see Helbock, H.J.
Salton, M.R.J.
— and Freer, J.H.
Composition of the membranes isolated from several Gram-positive bacteria (107)531
— and Netschey, A.
Physical chemistry of isolated bacterial membranes (107)539
— and Schmitt, M.D.
Effects of diphenylamine on carotenoids and menaquinones in bacterial membranes (135)196
—, see Corpe, W.A.
Salvatore, G.
—, Salvatore, M. and Wolff, J.
Restriction of cellular iodide space by mediated efflux (120)383
—, see Robbins, J.
Salvatore, M., see Salvatore, G.
Salvi, M.L., see Angeletti, P.U.
Samachson, J.
—, Dennis, J., Fowler, R. and Schmitz, A.
The reaction of ^{65}Zn with the surfaces of bone and bone mineral (148)767
Samarina, O.P.
—, Lukanidin, E.M. and Georgiev, G.P.
On the structural organization of the nuclear complexes containing mRNA (142)561
Saminski, E., see Bresler, S.
Sammons, H.G., see Whitehead, P.H.
Sampath Kumar, K., see Murty, H.S.R.
Sampson, S.D., see Shigeura, H.T.
Samuel, D., see Lapidot, A.
Samuels, R.B., see Mohammadzadeh, K.
Samuelsson, B., see Hamberg, M.; see Hansson, E.; see Karlsson, K.-A.
Sanborn, B.M.
— and Hein, G.E.
On the interaction of trypsin with neutral substrates and inhibitors (139)523

Sánchez O., J., see González S., C.; see González S., G.
Sand, D.M., see Schlenk, H.
Sand, G., see Glansdorff, N.
Sandakhchiev, L.S., see Grachev, M.A.
Sandberg, E.C.
— and Jenkins, R.C.
Aryl and steroid sulfatase in the human ovary (113)190
Sanders, H.
Method for the estimation of choline glycerophosphatides on paper chromatograms (106)397;
Preparative isolation of phosphatidyl serine from brain (144)485
Sandhoff, K.
— and Jatzkewitz, H.
A particle-bound sialyl-lactosido-ceramide splitting mammalian sialidase (141)442
Sandhu, R., see Hokin, L.E.
Sandrin, E., see Waller, J.-P.
Sandrus, R., see Gödeken, O.G.R.
Saneyoshi, M.
— and Nishimura, S.
Alteration of codon recognition of Escherichia coli tRNA by modification with cyanogen bromide (145)208
Sanner, T.
— and Pihl, A.
Identification of the water radicals involved in X-ray inactivation of enzymes in solution and determination of their rate of interactions with the enzyme (146)298
—, see Damjanovich, S.; see Kleppe, K.
Sano, I., see Kakimoto, Y.; see Kanazawa, A.
San Pietro, A., see Duffy, J.J.; see Ke, B.
Santarius, K.A.
— and Heber, U.W.
Changes in the intracellular levels of ATP, ADP, AMP and P_i and regulatory function of the adenylate system in leaf cells during photosynthesis (102)39
—, see Heber, U.W.
Santilli, V.
The effect of heat on the ultraviolet spectral properties of tobacco mosaic virus RNA complexed with Hg(II) (120)239
Santomé, J.A.
—, Wolfenstein, C.E.M. and Paladini, A.C.
Partial sequence of the first nine amino acids from the C-terminal end in bovine growth hormone (111)342
Sanwal, B.D., see Stachow, C.S.
Sanyal, A.B.
— and Ganguly, P.
A comparative study of the interaction of sodium tungstate and potassium phosphotungstate with haemoglobin (133)535
—, see Ganguly, P.
Saponara, A.G.
— and Enger, M.D.
Incorporation of [^{3}H]uridine and [methyl-^{14}C]methionine into Chinese hamster cell RNA (119)492
Sapora, O., see Arcà, M.
Sari, H., see Entressangles, B.
Sarid, S., see Wilchek, M.
Sarkar, N.K.
Effects of actinomycin D and mitomycin C on the degradation of DNA and polydeoxyribonucleotide by deoxyribonucleases and venom phosphodiesterase (145)174
— and Dürwald, H.
Degradation of phage (fr) RNA and poly U by soluble extracts of mutants deficient in ribonuclease (119)204
—, see Sauer, F.
Sarkissian, I.V.
— and McDaniel, R.G.
Regulation of mitochondrial activity by indoleacetic acid (128)413
Sarma, P.S., see Malathi, K.; see Padmanaban, G.
Sartirana, M.L., see Bianchetti, R.
Sartorelli, A.C.
—, Iannotti, A.T., Booth, B.A., Schneider, F.H., Bertino, J.R. and Johns, D.G.
Complex formation with DNA and inhibition of nucleic acid synthesis by methylglyoxal bis(guanylhydrazone) (103)174
—, see Johns, D.G.
Sartori, G., see Lancini, G.C.
Sasisekharan, V., see Ramachandran, G.N.
Sasko, H., see Goldberg, N.D.
Sassa, S., see Wada, O.
Sastry, K.S.
— and Gordon, M.P.
The photodynamic inactivation of tobacco mosaic virus and its RNA by acridine orange (129)32;
The photosensitized degradation of guanosine by acridine orange (129)42
—, see Waskell, L.A.
Sato, H.
—, Takahashi, K. and Kikuchi, G.
Inhibition studies of photophosphorylation by Rhodospirillum rubrum chromatophores with particular concerns to antimycin-resistant photophosphorylation in the presence of artificial electron carriers (112)8
—, see Nakano, H.
Sato, K.
—, Suzuki, R. and Tsuiki, S.
Oxidation of [6-^{14}C]glucose to $^{14}CO_2$ by the pentose cycle in Ehrlich ascites tumor cells (148)307
Sato, R., see Asano, A.; see Bak, T.-G.; see Imai, K.; see Nishibayashi, H.; see Oshino, N.
Sato, S.
Stimulation by triphenyltetrazolium chloride of aerobic oxidation of NADPH by tumor microsomes (122)359;
Free radicals in NADPH—microsomes—triphenyltetrazolium chloride system as evidenced by initiation of sulfite oxidation (143)554
Sato, T., see Yosizawa, Z.
Satoh, P.S.
— and Brown, R.K.
The effect of organic solvents on rabbit antibody (115)455
Satyanarayana, T.
— and Radhakrishnan, A.N.
Biosynthesis of valine and isoleucine in plants. III. Reductoisomerase of Phaseolus radiatus (110)380
Sauberlich, H.E., see Zakim, D.
Sauer, F.
— and Sarkar, N.K.
The lethal effect of ethionine administered

Sauer, F. (continued)
to guinea pig (148)579
Sauer, G.
— and Munk, K.
Interference of actinomycin D with the replication of Herpes virus DNA.
II. Relationship between virus yield and time of actinomycin treatment (119)341
—, Orth, H.D. and Munk, K.
Interference of actinomycin D with the replication of the Herpes virus DNA.
I. Difference in behaviour of cellular and viral nucleic acid synthesis following treatment with actinomycin D (119)331
Sauer, K.
— and Biggins, J.
Action spectra and quantum yields for NADP reduction by chloroplasts (102)55
Sauermann, G.
The activation by iodoacetate of an amytal-, antimycin A- and cyanide-insensitive oxidation of glucose carbon-6 in ascites tumor cells (105)198;
On the activation of glucose oxidation by iodoacetate in ascites tumor cells (118)268;
The iodoacetate-induced translocation of glucose carbon in ascites tumor cells (136)577
Saunders, D.R.
— and Beck, M.
Permeability of the human small intestine to uric acid (102)618
Saunders, L.
Molecular aggregation in aqueous dispersions of phosphatidyl and lysophosphatidyl cholines (125)70
—, see Attwood, D.; see Hoyes, S.D.; see Kellaway, I.W.
Saunders, S.J.
— and Isselbacher, K.J.
Inhibition of intestinal amino acid transport by hexoses (102)397
Savary, P.
Sur la solubilisation micellaire des acides palmitique, stéarique et oléique dans les solutions d'acides biliaires conjugués (125)328
— et Constantin, M.J.
Sur la résorption intestinale des chaînes éruciques et leur incorporation dans les chylomycrons lymphatiques du rat (125)119;
Sur la solubilisation micellaire de l'hexadécane et son passage dans la lymphe thoracique du rat (137)264;
Some experimental data on the endogenous chains in the triglycerides of rat thoracic duct lymph (144)549
—, see Constantin, M.J.
Savitsky, J.P.
— and Stand, F.
A method for the preparation of mammalian DNA (114)419
Sawant, P.L., see Mellors, A.
Sawyer, W.H., see Armstrong, J.McD.; see McKenzie, H.A.
Saxena, B.B.
— and Henneman, P.H.
An improved method for preparation of follicle stimulating and luteinizing hormones from horse pituitary glands (104)496
Sbarra, A.J., see Selvaraj, R.J.
Scarborough, G.A.
— and Nyc, J.F.
Properties of a phosphatidylmonomethylethanolamine N-methyltransferase from Neurospora crassa (146)111
Scarpa, A., see Azzi, A.
Scarpinato, B., see Calendi, E.
Schaeffer, P., see Glaser, L.
Schaeg, W.
—, Finger, H. und Niemann, H.
Experimentelle Untersuchungen über die Bedeutung der Imidazolringe für das Assoziationsvermögen von Insulinmolekülen (126)168
—, see Finger, H.
Schaer, J.C.
— and Schindler, R.
The requirement of mammalian cell cultures for serum proteins. Growth-promoting activity of pepsin-digested serum albumin in different media (147)154
Schafer, J.A.
— and Jacquez, J.A.
Transport of amino acids in Ehrlich ascites cells: Competitive stimulation (135)741;
Change in Na^+ uptake during amino acid transport (135)1081
Schaller, H., see Hohn, Th.
Schanbacher, F.
— and Wilken, D.R.
Synthesis of α-L-fucose 1-phosphate and guanosine diphosphate α-L-fucose (141)646
Schandl, E.K., see Abbott, M.T.
Schapira, G., see Dreyfus, J.C.; see Kruh, J.
Scharff, M.D., see Borun, T.W.
Schayer, R.W.
— and Sestokas, E.
Suppression of histamine synthesis in guinea pigs by α-methyl-DOPA (111)557
Schechter, B., see Schechter, I.
Schechter, I.
Competition of antigenic determinants (104)303
—, Schechter, B. and Sela, M.
Combining sites of antibodies with L-alanine and D-alanine peptide specificity and the effect of serum proteolytic activity on their estimation (127)438
— and Sela, M.
Combining sites of antibodies to L-alanine and D-alanine peptide determinants (104)298;
Preferential immune response to D-amino acid residues in poly-DL-amino acid determinants (104)301
Scheit, K.-H.
Die Synthese von N^3-Methylthymidin-5'-triphosphat (119)425;
Untersuchungen an Poly-5-Hydroxymethyluridylsäure und Poly-5-Methyluridylsäure (134)17;
Silicagel-Dünnschichtchromatographie von Nucleosiden, Nucleotiden und Oligonucleotiden (134)217;
Polynucleotide mit Uridin und 4-Thiouridin (145)535
—, Cramer, F. and Franke, A.
Interaction between adenine, guanine and thymine in deoxyoligonucleotides: A proton magnetic resonance study (145)21

— und Holý, A.
Die Methylierung von Inosin und Uridylyl-(3'-5') Inosin durch Dimethylsulfat (149)344
—, see Holý, A.
Schellman, J.A., see Raval, D.N.
Schepartz, A.I.
The glucose oxidase of honey. IV. Some additional observations (118)637
Schepman, A.M.J., see Naber, J.E.
Scheraga, H.A., see Endres, G.F.; see Friedman, M.E.
Scherbaum, O.H., see Lazarus, L.H.
Scherphof, G.L.
— and Van Deenen, L.L.M.
On the pathways of fatty acid incorporation into the lipids of subcellular particles of rat liver and into erythrocytes (113)416
—, Waite, M. and Van Deenen, L.L.M.
Formation of lysophosphatidyl ethanolamines in cell fractions of rat liver (125)406
Scherrer, J.R.
L'activité acétylcholinestérasique d'érythrocytes humains en fonction de la température (105)137
Scherstén, T.
The synthesis of taurocholic and glycocholic acids by preparations of human liver. I. Distribution of activity between subcellular fractions (141)144
—, Björntorp, P., Ekdahl, P.H. and Björkerud, S.
The synthesis of taurocholic and glycocholic acids by preparations of human liver. II. An analysis of the stimulating effect of the L fraction (141)155
—, see Björntorp, P.
Schiller, K.W., see Ibsen, K.H.
Schiller, S.
Isolation of heparitin sulfate from skin of normal rats (124)215
—, Blumenkrantz, N. and Dorfman, A.
Effect of prednisolone and hydrocortisone on distribution of mucopolysaccharides in the skin of rats (101)135
Schilling, J.A., see White, B.N.
Schilperoort, R.A.
—, Veldstra, H., Warnaar, S.O., Mulder, G. and Cohen, J.A.
Formation of complexes between DNA isolated from tobacco crown gall tumours and RNA complementary to Agrobacterium tumefaciens DNA (145)523
Schimmel, P.R., see Fasella, P.
Schindler, R., see Schaer, J.C.
Schingoethe, J.
—, Hageman, E.C. and Larson, B.L.
Essential amino acids for milk protein synthesis in the in vitro secretory cell and stimulation by elevated levels (148)469
Schiphorst, J., see Jansz, H.S.
Schito, G.C.
—, Rialdi, G. and Pesce, A.
Biophysical properties of N_4 coliphage (129)482;
Physical properties of the DNA from N_4 coliphage (129)491
Schlegel, H.G., see König, C.
Schlegel, J., see Schubert, K.
Schlender, K.K., see Fathipour, A,
Schlenk, H.
—, Gellerman, J.L. and Sand, D.M.
Retroconversion of polyunsaturated fatty acids in vivo by partial degradation and hydrogenation (137)420
— and Sand, D.M.
A new group of essential fatty acids and their comparison with other polyenoic fatty acids (144)305
—, see Staerk, J.
Schlessinger, D.
— and Ben-Hamida, F.
Turnover of protein in Escherichia coli starving for nitrogen (119)171
—, see Ben-Hamida, F.
Schlosser, G.H., see Miller, L.V.
Schlumberger, H.D., see Anderer, F.A.
Schmelzer, P., see Terzuolo, C.A.
Schmid, H.H.O.
—, Baumann, W.J., Cubero, J.M. and Mangold, H.K.
Fractionation of lipids by successive adsorption and argentation chromatography on adjacent layers (125)189
—, Baumann, W.J. and Mangold, H.K.
Alkoxylipids. III. Naturally occurring D(+)-cis-alk-1'-enyl-diglycerides (144)344
— and Mangold, H.K.
Alkoxylipids. II. "Neutral plasmologens" in the liver oil of the ratfish (Hydrolagus colliei) (125)182
—, see Baumann, W.J.
Schmid, K., see Ishihara, K.; see Poortmans, J.R.; see Yosizawa, Z.
Schmid, W.
—, Gallwitz, D. and Sekeris, C.E.
On the mechanism of hormone action. VIII. Further studies on the effect of cortisol on isolated rat liver nuclei (134)80
—, see Dukes, P.P.
Schmidt, D.G., see Payens, T.A.J.
Schmidt, H., see Söling, H.D.
Schmidt, M.
—, Dmochowski, A. and Wierzbowska, B.
Galactose and xylose as structural components of vertebrate chondroitin sulfate–protein complexes (117)258
Schmidt, R.M.
—, Pollak, R.D. and Rosenkranz, H.S.
Hydroxyurethane: Dichotomy of action in bacterial and animal cells (138)645
Schmidt, R.R., see Johnson, R.A.
Schmidt-Kastner, G., see Pütter, J.
Schmitt, M.D., see Salton, M.R.J.
Schmitz, A., see Samachson, J.
Schnatz, J.D.
Neutral and alkaline lipolytic activities in human adipose tissue (116)243
—, see Cortner, J.A.
Schnebli, H.P., see Allan, P.W.
Schneider, A.L., see Campbell, B.J.
Schneider, F.H., see Sartorelli, A.C.
Schneider, H., see Rapport, M.M.
Schneider, W.P.
—, Pike, J.E. and Kupiecki, F.P.
Determination of the origin of 9-keto-15-hydroxy-10,13-prostadienoic acid by a double-labeling technique (125)611
Schneider-Bernlöhr, H., see Lingens, F.
Schneir, M.L.
— and Rafelson, Jr., M.E.

Schneir, M.L. (continued)
Isolation and characterization of two structural isomers of N-acetylneuraminyllactose from bovine colostrum (130)1
Schnieders, B., see Kersten, H.
Schöberl, A.
—, Gross, E., Morell, J.L. and Witkop, B.
The separation of optical isomers of β-methyllanthionine (121)406
Schoellman, G.
— and Fischer, Jr., E.
A collagenase from Pseudomonas aeruginosa (122)557
Schoenmakers, J., see Bloemendal, H.
Schoenmakers, J.G.G.
—, Matze, R., Haanen, C. and Zilliken, F.
Hageman factor, a novel sialoglycoprotein with esterase activity (101)166
—, Zweers, A. and Bloemendal, H.
Synthesis of lens protein in vitro. I. Properties of polyribosomes (145)120
Schoffeniels, E., see Dandrifosse, G.; see Wins, P.
Scholefield, P.G., see Ahmed, K.; see Bégin, N.
Scholte, H.R.
— and Tager, J.M.
Nature of the compartmentation of the substrate-linked phosphorylation in rat-liver mitochondria (110)252
Scholtissek, C.
Synthesis of abnormal RNA in presence of proflavine (103)146;
Nucleotide metabolism in tissue culture cells at low temperatures. I. Phosphorylation of nucleosides and deoxynucleosides in vivo (145)228;
Nucleotide metabolism in tissue culture cells at low temperatures. II. Feedback mechanism during the synthesis of nucleoside and deoxynucleoside triphosphates at low temperatures (145)238
— and Becht, H.
Action of acridines on RNA and protein synthesis and on the active transport in chick embryo cells (123)585
Schönherr, O.Th.
— and Borst Pauwels, G.W.F.H.
Investigation into the permeability of yeast cells to phosphate (135)787
Schonne, E.
Properties of rat-tumor interferon (115)429
Schöpp, W.D., see Aurich, H.
Schotz, M.C.
—, Arnesjö, B. and Olivecrona, T.
The role of the liver in the uptake of plasma and chyle triglycerides in the rat (125)485
— and Garfinkel, A.S.
Effect of puromycin and actinomycin on carbohydrate induced lipase activity in rat adipose tissue (106)202
— and Olivecrona, T.
The effect of anesthesia on the fate of injected free fatty acid (125)174
Schram-Doumont, A., see Mariano, E.E.
Schramm, G.
—, Lünzmann, G. and Bechmann, F.
Syntheses of α- and β-adenosine and of α- and β-2'-deoxyadenosine with phenyl polyphosphate (145)221
— and Ulmer-Schürnbrand, I.
Synthesis of polyspongouridylic acids from uridylic acids and phenylpolyphosphate esters (145)7
Schramm, M.
—, Eisenkraft, B. and Barkai, E.
Cold-induced leakage of amylase from the zymogen granule and sealing of its membrane by specific lipids (135)44
Schrier, S.L.
ATP synthesis in human erythrocyte membranes (135)591
Schroeder, W.A.
—, Shelton, J.R. and Robberson, B.
Modification of methionyl residues during aminoethylation (147)590
—, see Heidrich, H.-G.; see Labie, D.
Schroepfer, Jr., G.J., see Bristol, G.; see Paliokas, A.M.
Schubert, K.
—, Böhme, K.-H. und Hörhold, C.
Uber die Bildung von sieben niedrigmolekularen Abbauprodukten des Progesterons (111)529
— and Kaufmann, G.
Bildung von Sterinestern in der Bakterienzelle (106)592
—, Rose, G. und Hörhold, C.
Cholesterin in Streptomyces olivaceus (137)168
—, Schlegel, J., Böhme, K.-H. und Hörhold, C.
Mikrobielle Hydrierungs- und Dehydrierungs-Reaktionen bei Δ^4-3-Ketosteroiden mit einer 6-Hydroxygruppe (144)132
Schuberth, J.
Choline acetyltransferase. Purification and effect of salts on the mechanism of the enzyme-catalyzed reaction (122)470
Schuchmann, L., see Kröger, H.
Schulman, H.M.
The fractionation of rabbit reticulocytes in dextran density gradients (148)251
—, see Zucker, W.V.
Schulman, J.H., see Shah, D.O.
Schulman, S.
—, Mates, G. and Bronson, P.
Studies on thyroid proteins. II. Purification of human thyroid proteins by gel filtration and the isolation of 19-S, 7-S, and 4-S components (147)208
Schultz, S.G., see Field, M.; see Fuisz, R.E.; see Goldman, D.; see Zarlengo, M.H.
Schultz-Haudt, S.D.
—, Aarli, J., Lohrmann Nilsen, A. and Unhjem, O.
Hydroxyproline-containing glycopeptides of some human and animal tissues (101)292
Schulz, G.V., see Kranz, D.; see Marx-Figini, M.
Schuntner, C.A.
— and Thompson, P.G.
Detection and estimation of [^{14}C]diazoxon in vivo by countercurrent distribution and inhibition assay (115)225
Schutzbach, J.S., see Ankel, H.
Schwartz, A., see Matsui, H.
Schwartz, A.W.
— and Fox, S.W.
Condensation of cytidilic acid in the presence of polyphosphoric acid (134)9
— and Hayes, F.N.
Synthesis of a polydeoxyribonucleotide containing an internal pyrophosphate linkage

(138)605
Schwartz, E.R.
— and Petermann, M.L.
The binding properties of rat-liver ribosomes: Complexes formed with cytochrome c (112)119
Schwartz, H.C., see Gribble, T.J.
Schwartz, J.H., see Broome, J.D.
Schwartz, L., see Yashphe, J.
Schwartz, M.
Light effects on oxygen evolution and phosphorylation in spinach chloroplasts (102)361; N-Tetramethyl-p-phenylenediamine as a catalyst of photophosphorylation (112)204; Wavelength-dependent quantum yields of chloroplast phosphorylation catalyzed by phenazine methosulphate (131)548; Wavelength-dependent quantum yield of ATP synthesis and $NADP^+$ reduction in normal and dichlorodimethylphenylurea-poisoned chloroplast (131)559
Schwartzman, L.
—, Blair, A. and Segal, S.
Exchange diffusion of dibasic amino acids in rat kidney cortex slices (135)120; Effect of transport inhibitors on dibasic amino acid exchange diffusion in rat kidney cortex (135)136
—, Crawhall, J. and Segal, S.
Incorporation of amino acids into a lipid fraction of kidney cortex (124)62
—, see Segal, S.
Schweibert, M.C., see Daniels, M.
Schweitzer, J.W.
— and Friedhoff, A.J.
Distribution of [α-^{14}C]3,4-dimethoxyphenethylamine among various organs of the rat (111)326
Schwimmer, S.
— and Aronson, A.
Susceptibility to nucleases of DNA synthesized with nucleohistone primer (134)59
— and Bonner, J.
Nucleohistone as template for the replication of DNA (108)67
—, Kabat, S. and Filner, P.
Retention by membrane filters of phosphatase-produced deoxyadenosine in DNA polymerase assay (108)150
Schyns, R., see Bricteux-Gregoire, S.
Scow, R.O., see Brady, R.O.
Scroggs, R.A., see Coleman, R.L.
Seaman, G.V.F., see Mehrishi, J.N.; see Vassar, P.S.
Searcy, R.L.
— and Bergquist, L.M.
Ultrasonically-induced alterations in serum lipoprotein structure (106)603
Sears-Gessel, M.L., see Litwack, G.
Secchi, A.G., see Papa, S.
Sedgwick, B.
— and Hübscher, G.
Metabolism of phospholipids. IX. Phosphatidate phosphohydrolase in rat liver (106)63; Metabolism of phospholipids. X. Partial purification and properties of a soluble phosphatidate phosphohydrolase from rat liver (144)397
—, see Brindley, D.N.
Sedláčková, E., see Macholán, L.
Sedwick, W., see Maes, R.
Segal, H.L., see Garrido-Pinson, G.C.
Segal, S.
Formation of penicillinase by cysteine-starved auxotrophs of Bacillus licheniformis (108)297
—, Schwartzman, L., Blair, A. and Bertoli, D.
Dibasic amino acid transport in rat kidney cortex slices (135)127
—, see Crawhall, J.C.; see London, D.R.; see Schwartzman, L.; see Thier, S.O.
Segel, I.H., see Huber, R.E.
Segers, M., see Poortmans, J.R.
Seidel, D.T.
—, Von Chak, D. und Weber, H.H.
Die absoluten Affinitätskonstanten von G-Actin und F-Actin mit ATP, ITP, CTP, GTP, ADP und IDP (140)93
Seidel, H.
Untersuchungen zur Komplexbildung von Polynucleotiden mit Harnstoff und Harnstoffderivaten (129)412; Vergleichende Untersuchungen über die Stabilitätsänderung der Doppelstränge Poly(A) · Poly(U) und Poly(I) · Poly(C) nach partieller N-Oxydation des A- beziehungsweise C-Stranges (129)414; Zur selektiven Spaltung von DNA am Cytosin: Untersuchungen am Modell d(pCpT) (138)98
— und Cramer, F.
Untersuchungen über die Sekundarstruktur von löslicher RNA aus Hefe (108)367
Seidel, J.C.
The effect of soluble proteins on the fragmented sarcoplasmic reticulum (131)213
Seidman, I.
—, Horland, A.A. and Teebor, G.W.
Hepatic glycolytic and gluconeogenic enzymes of the obese-hyperglycemic mouse (146)600
Seijen, H.G., see Van Dalen, A.
Sekeris, C.E., see Dukes, P.P.; see Lucács, I.; see Schmid, W.
Sekiguchi, F., see Sekiguchi, T.
Sekiguchi, T.
—, Sekiguchi, F. and Matsudaira, H.
Characterization of two fractions of deoxyribonucleoprotein with different histone composition (145)693
Sekiya, T.
—, Yoshida, M. and Ukita, T.
Effect of trinucleoside diphosphates containing inosine at the 3'-end upon the binding of aminoacyl-tRNA to ribosomes (149)610
Sekuzu, I., see Fleischer, B.; see Yubisui, T.
Sela, M.
— and Mozes, E.
Distribution of antibody activities after simultaneous immunization with two antigens (130)254
—, see Borek, F.; see Hurwitz, E.; see Moroz, C.; see Rimon, A.; see Schechter, I.; see Slobin, L.I.; see Stupp, Y.; see Ungar-Waron, H.
Selby, F.W., see Walter, H.
Selinger, Z.
— and Holman, R.T.
Effects of trans,trans-linoleate upon the metabolism of linoleate and linolenate and the positional distribution of linoleate isomers in liver lecithin (106)56

Sell, H.M., see Fathipour, A.
Sellinger, O.Z.
Inactivation of cerebral glutamine synthetase by DL-methionine-DL-sulfoximine (132)514
—, Lee, K.L. and Fesler, K.W.
The induction of mitochondrial α-glycerophosphate dehydrogenase by thyroid hormone: Effects of adrenalectomy, thyroidectomy and cortisone administration (124)289
Sells, B.H.
Ribosome formation from RNA accumulated during puromycin treatment: Influence of proflavin (114)565
— and Crudup, K.
Ribosome production during recovery from puromycin treatment: Influence of 5-fluorouracil (123)253
— and Takahashi, T.
Early changes in liver cytoplasmic RNA of growth hormone-treated rats (134)69
—, see Jackson, C.D.
Seltzer, J., see Rotstein, J.
Selvaraj, R.J.
— and Sbarra, A.J.
Phagocytosis inhibition and reversal. II. Possible role of pyruvate as an alternative source of energy for particle uptake by guinea-pig leukocytes (127)159;
The role of the phagocyte in host–parasite interactions. VII. Di- and triphosphopyridine nucleotide kinetics during phagocytosis (141)243
Selwyn, M.J.
A simple test for inactivation of an enzyme during assay (105)193;
Temperature and photosynthesis. II. A mechanism for the effects of temperature on carbon dioxide fixation (126)214
Semenza, G.
—, Auricchio, S., Rubino, A., Prader, A. and Welsh, J.D.
Lack of some intestinal maltases in a human disease transmitted by a single genetic factor (105)386
—, Curtius, C.-H., Kolínská, J. and Müller, M.
Studies on intestinal sucrase and intestinal sugar transport. VI. Liberation of α-glucose by sucrase and isomaltase from the glycone moiety of the substrates (146)196
—, see Hsia, D.Y.Y.; see Kolínská, J.
Séméríva, M.
—, Benzonana, G. and Desnuelle, P.
Purification of a lipase from Rhizopus arrhizus. Identification of two active forms of the enzyme (144)703
Semmel, M.
— et Daune, M.
Etudes des complexes de colorants basiques avec le RNA (145)561
— et Huppert, J.
Interaction in vitro entre l'actinomycine D et le rRNA (103)702
—, see Huppert, J.
Sempińska, E.
— and Ledoux, L.
The fate of heterologous DNA microinjected into eggs of amphibians during their development. II. Investigations by centrifugal chromatography on DEAE-cellulose paper pulp, ultracentrifugation on CsCl gradients and DNA–DNA hybridization in agar gel (138)570
Sen, A.K., see Bader, H.
Sen S.P., see Datta, A.; see Roychoudhurry, R.
Senior, J.R., see Shafritz, D.A.
Seno, T., see Nishimura, S.
Seraydarian, K.
—, Briskey, E.J. and Mommaerts, W.F.H.M.
The modification of actomyosin by α-actinin. I. A survey of experimental conditions (133)399
—, see Briskey, E.J.
Serif, G.S.
Hormonal effects on purine synthesis in dog thyroid (119)229
—, see Butcher, F.R.
Seror, S., see Heyman, T.
Sessa, G.
— and Weissmann, G.
Effect of polyene antibiotics on phospholipid spherules containing varying amounts of charged components (135)416
Sestokas, E., see Schayer, R.W.
Setlow, J.K.
— and Boling, M.E.
The resistance of Micrococcus radiodurans to ultraviolet radiation. II. Action spectra for killing, delay in DNA synthesis, and thymine dimerization (108)259
—, see Boling, M.E.
Setlow, R.B., see Carrier, W.L.
Seto, J.T.
—, Drzeniek, R. and Rott, R.
Isolation of a low molecular weight sialidase (neuraminidase) from influenza virus (113)402
—, see Drzeniek, R.
Sexson, K.R., see Wu, Y.V.
Seydoux, F.
Mise en évidence cinétique d'une transesterification au cours de l'hydrolyse trypsique de l'ester éthylique de la lysine en présence de divers alcools (146)544
Sgaramella, V.
— and Polsinelli, M.
On the relationship between the streptomycin and rRNA loci (149)496
Shabolenko, V.P., see Gershanovitch, V.N.
Shafrir, E., see Gorin, E.
Shafritz, D.A.
— and Senior, J.R.
Synthesis of pyrimidine nucleotide precursors in human and rat small intestinal mucosa (141)332
Shah, D.O.
— and Schulman, J.H.
The ionic structure of sphingomyelin monolayers (135)184
—, see Galdston, M.
Shah, N.S.
—, Mathur, P.P. and Martin, S.P.
Nicotinamide adenine dinucleotidase activity in experimental tuberculosis (117)263
Shah, S.N., see Lossow, W.J.
Shahani, K.M., see Chandan, R.C.; see Khan, I.M.
Shalitin, N., see Davidov, E.
Shamash, Y.
— and Rimon, A.

The plasmin inhibitors of human plasma. III. Purification and partial characterization (121)35
—, see Rimon, A.
Shamovsky, G.G., see Knorre, D.G.
Shapira, E.
— and Arnon, R.
Antibodies to papain. Resolution on DEAE-Sephadex into fractions with different precipitating capacities (140)177
Shapiro, B., see Brandes, R.; see Reshef, L.
Shapiro, H.S., see Rudner, R.
Shapot, V.
— and Pitot, H.C.
Isolation and fractionation of RNA from the smooth endoplasmic reticulum of rat liver (119)37
Shapot, V.S., see Lichtenstein, A.V.; see Rodionova, N.P.
Sharma, C.S., see Perrin, D.D.
Sharma, V.S.
The stability constants of metal complexes of serine and threonine (148)37
Sharp, G.W.G.
—, Lichtenstein, N.S. and Leaf, A.
Acetyl-CoA requirement for the stimulation of sodium transport by aldosterone (111)329
Sharp, P.B., see Moses, V.
Sharpless, N., see Cerbon, J.
Shavit, N.
— and Avron, M.
The relation of electron transport and photophosphorylation to conformational changes in chloroplasts (131)516
—, see Avron, M.; see Zweig, G.
Shaw, C.R., see Koen, A.L.
Shaw, D.R.D.
— and Bygrave, F.L.
NAD^+-linked L-mannitol dehydrogenase in Acetobacter suboxydans (113)608
Shaw, E.N., see Baugh, C.M.
Sheehan, G., see Lyman, R.L.
Shelburne, F.A.
— and Quin, L.D.
Isolation of 2-(methylamino)ethylphosphonic acid from the proteinaceous residue of a sea anemone (148)595
Shelton, J.R., see Schroeder, W.A.
Shephard, D.C.
An autoradiographic comparison of the effect of enucleation and actinomycin D on the incorporation of nucleic acid and protein precursors by Acetabularia chloroplasts (108)635
Sherma, J., see Strain, H.H.
Sherman, F., see Jones, W.B.G.; see Pretlow, T.P.
Sherman, J.H., see Jacquez, J.A.
Sherwood, M., see Singer, B.
Sheth, K.
— and Alexander, J.K.
Cellodextrin phosphorylase from Clostridium thermocellum (148)808
Shethna, Y.I.
—, Wilson, P.W. and Beinert, H.
Purification of a non-heme iron protein and other electron transport components from Azotobacter extracts (113)225
Shetlar, M.R., see Capps, J.C.; see White, B.N.
Shibaev, V.N., see Budowsky, E.I.
Shibata, K., see Aoyama, M.; see Hachimori, Y.; see Matsushima, A.; see Ogawa, T.
Shields, J.E.
—, Dinovo, E.C., Henriksen, R.A., Kimbel, Jr., R.L. and Millar, P.G.
The purification and amino acid composition of bovine rhodopsin (147)238
Shifrin, S.
— and Steers, Jr., E.
The effect of urea on subunit interactions of β-galactosidase from Escherichia coli K12 (133)463
—, see Steers, Jr., E.
Shigesada, K.
—, Hidaka, K., Katsuki, H. and Tanaka, S.
Biosynthesis of glutamate in photosynthetic bacteria (112)182
Shigeura, H.T.
— and Sampson, S.D.
Utilization of 6-methylamino-9-(3'-deoxy-β-D-ribofuranosyl)purine by KB cells (138)26
Shiio, I.
— and McFadden, B.A.
Isocitrate lyase from Pseudomonas indigofera. III. Sulfhydryl groups and enzyme activity (105)496
Shikita, M.
— and Hall, P.F.
The action of human chorionic gonadotrophin in vivo upon microsomal enzymes of immature rat testis (136)484;
Action of human chorionic gonadotrophin in vivo upon microsomal enzymes in testes of hypophysectomized rats (141)433
—, Ogiso, T. and Tamaoki, B.
Effect of inhibitors on testicular microsomal steroid 17 α-hydroxylase and 17α-hydroxypregnene C_{17}–C_{20} lyase (105)516
—, see Inano, H.; see Murota, S.; see Nakano, H.
Shilo, M., see Yashphe, J.
Shimada, K.
— and Takagi, Y.
The effect of caffeine on the repair of ultraviolet-damaged DNA in bacteria (145)763
Shimazono, N., see Wakabayashi, K.
Shimazu, T.
Response to 20-methylcholanthrene of hepatic aniline- and acetanilide 4-hydroxylase of rats with hypothalamic lesions (105)377
Shimizu, A.
—, Tsugita, A., Hayashi, A. and Yamamura, Y.
The primary structure of hemoglobin M_{Iwate} (107)270
—, see Hayashi, A.; see Suzuki, T.
Shimizu, B., see Nishimura, T.
Shimizu, H.
— and Ozawa, H.
Studies on aldolases. I. Amino acid composition and subunit structure of rabbit muscle aldolase (133)195
Shimizu, S., see Yamada, R.
Shimizu, Y., see Fujimura, S.; see Hasegawa, S.
Shimoyama, M., see Yamaguchi, K.
Shimura, Y.
— and Vogel, H.J.
Diaminopimelate decarboxylase of Lemna perpusilla: Partial purification and some properties (118)396
Shimuzu, K.
Conversion of 20α-hydroxycholest-4-en-3-one

Shimuzu, K. (continued)
to progesterone by an adrenal enzyme preparation (111)571
Shimuzu, S., see Yamane, T.
Shinohara, T., see Ohkuma, S.
Shinowara, G.Y.
Human thrombin and fibrinogen: The kinetics of their interaction and the preparation of the enzyme (113)359
Shipolini, R.
—, Ivanov, Ch.P., Dimitrov, G. and Alexiev, B.V.
Composition of the low molecular fraction of the Bulgarian viper venom (104)292
Shipp, J.C., see Delcher, H.K.
Shirahama, T., see Cathcart, E.S.
Shiratori, T.
— and Goodman, DeW.S.
Complete hydrolysis of dietary cholesterol esters during intestinal absorption (106)625
Shoemaker, R., see Sachs, G.
Shore, M.L., see Mishkin, E.P.
Shorland, F.B.
—, Body, D.R. and Gass, J.P.
The foetal and maternal lipids of romney sheep. II. The fatty acid composition of the lipids from the total issues (125)217
—, see Hansen, R.P.
Shoshani, T., see Hershko, A.; see Mager, J.
Shrago, E.
— and Shug, A.L.
Phosphoenolpyruvate carboxykinase from Tetrahymena pyriformis (122)376
Shrift, A., see Virupaksha, T.K.
Shug, A.L., see Shrago, E.
Shurley, H.M., see White, B.N.
Shutov, F., see Bresler, S.
Shyamala, G.
—, Lossow, W.J. and Chaikoff, I.L.
Esterification of cholesterol by rat adrenal gland homogenates and subcellular components (116)543
Sibatani, A., see Kimura, K.; see Morimoto, T.
Sick, K.
—, Beale, D., Irvine, D., Lehmann, H., Goodall, P.T. and MacDougall, S.
Haemoglobin $G_{Copenhagen}$ and haemoglobin $J_{Cambridge}$. Two new β-chain variants of haemoglobin A (140)231
Sidorova, E.V., see Gurvich, A.E.
Sidransky, H.
— and Verney, E.
Decreased protein synthesis in the skeletal muscle of rats force-fed a threonine-devoid diet (138)426
—, see Staehelin, T.
Siebenthal, C.D., see Lyons, J.W.
Siegel, L.M.
— and Monty, K.J.
Determination of molecular weights and frictional ratios of proteins in impure systems by use of gel filtration and density gradient centrifugation. Application to crude preparations of sulfite and hydroxylamine reductases (112)346
Siegel, M.R.
— and Sisler, H.D.
Site of action of cycloheximide in cells of Saccharomyces patorianus. III. Further studies on the mechanism of action and the mechanism of resistance in Saccharomyces species (103)558
Siekevitz, P.
—, Maggio, R. and Catalano, C.
Some properties of a rapidly labeled RNA species in Sphaerechinus granularis (129)145
Sigel, H.
—, Becker, K. and McCormick, D.B.
Ternary complexes in solution. Influence of 2,2'-bipyridyl on the stability of 1:1 complexes of Co^{2+}, Ni^{2+}, Cu^{2+} and Zn^{2+} with hydrogen phosphate, AMP and ATP (148)655
Sigler, K., see Nemček, O.
Siimes, M., see Raina, A.
Silber, R.
—, Berman, E., Goldstein, B., Stein, H., Farnham, G. and Bertino, J.R.
Methylation of nucleic acids in normal and leukemic leukocytes (123)638
Silbert, J.E.
— and DeLuca, S.
The synthesis of uridine diphosphate xylose by particulate preparations from mouse mast-cell tumors (141)193
—, see Lipson, M.J.
Siliprandi, N., see Lorini, M.; see Moret, V.; see Pinna, L.A.
Silman, N.
—, Artman, M. and Engelberg, H.
Effect of magnesium and spermine on the aggregation of bacterial and mammalian ribosomes (103)231
Silver, A.V., see Brown, E.G.
Silver, M., see Suzuki, I.
Silverstein, J.
— and Bondy, P.K.
An RNA fraction in human placenta with template activity (119)407
Simanis, J., see Mazel, P.
Simard-Duquesne, N., see Lee, C-p.
Simenhoff, M.L., see Asatoor, A.M.
Simlot, M.M.
—, Stevens, F.C. and Feeney, R.E.
Reduction and reoxidation of ovomucoids (130)549
Simmonds, W.J., see Baker, E.; see Sparrow, M.P.
Simmons, J.W., see Dobbs, Jr., N.B.
Simmons, L.R., see Armentrout, S.A.
Simmons, W.S., see Melius, P.
Simon, L.
—, Myers, T. and Mednieks, M.
Enzymatic synthesis of polyribonucleotides using 5'-adenylylmethylenediphosphonate: A phosphonic acid analog of ATP (103)189
Simon, L.N.
—, Glasky, A.J. and Rejal, T.H.
Enzymes in the central nervous system. I. RNA methylase (142)99
Simons, K.
— and Bearn, A.G.
The use of preparative polyacrylamide-column electrophoresis in isolation of electrophoretically distinguishable components of the serum group-specific protein (133)499
— and Weber, T.
Vitamin B_{12}-binding protein in human leukocytes (117)201
—, see Gräsbeck, R.

Simpson, P.J., see Gerzon, K.
Simukova, N.A., see Kochetkov, N.K.
Sinclair, H.B., see Christianson, D.D.
Sinclair, J.H.
—, Stevens, B.J., Gross, N. and Rabinowitz, M.
The constant size of circular mitochondrial DNA in several organisms and different organs (145)528
Sinclair, P.
—, White, D.C. and Barrett, J.
The conversion of protoheme to heme a in Staphylococcus (143)427
—, see Barrett, J.
Sinex, F.M., see Kurtz, D.I.
Singer, B.
—, Sherwood, M. and Fraenkel-Conrat, H.
Studies of nucleotide sequences in tobacco mosaic virus. II. The action of spleen phosphodiesterase (108)306
Singer, S.
— and Mason, M.
Tyrosine-α-ketoglutarate transaminase: Effect of the administration of sodium benzoate and related compounds on the hepatic enzyme level (110)370;
The effects of the administration of sodium benzoate and diethylstilbestrol disulfate on the hepatic levels of several glucocorticoid-sensitive enzymes in adrenalectomized rats (146)443;
Studies of the in vitro and in vivo effects of conjugated steroids and carboxylic acids on hepatic tyrosine transaminase in the rat (146)452
Singer, T.P., see Salach, J.
Singh, B.B.
— and Ormerod, M.G.
The effect of sulphur compounds on free radical reactions and formation in irradiated dry proteins (109)204
—, see Ormerod, M.G.
Singh, K.
— and Rakhit, S.
Mechanism of side-chain degradation of C_{21} steroids by spores of Septomyxa affinis (144)139
Singh, V.N.
— and Chaikoff, I.L.
The effect of actinomycin D on the insulin-mediated enhancement of incorporation of ^{14}C-labelled precursors into protein and RNA by fetal rat thyroid glands in organ culture (142)174
—, Raghupathy, E. and Chaikoff, I.L.
Amino acid incorporation into protein by cell-free preparations of sheep thyroid glands: Microsomal system (103)623
—, see Kumar, M.
Sink, J.D.
—, Cassens, R.G., Hoekstra, W.G. and Briskey, E.J.
Rigor mortis pattern of skeletal muscle and sarcomere length of the myofibril (102)309
Sinkkonen, I., see Gräsbeck, R.
Sinohara, H.
— and Sky-Peck, H.H.
sRNA and glycoprotein biosynthesis in the mouse liver (101)90
Sinsheimer, R.L., see Godson, G.N.
Sire, J., see Surdin, Y.
Sirlin, J.L.
—, Jacob, J. and Birnstiel, M.L.
Synthesis of different species of nucleolar RNA (108)716
Sirs, J.A.
The egress of oxygen from sheep erythrocytes (112)538;
The velocity constant, k_4, of the reaction $Hb_4O_8 + CO$ in sheep erythrocytes and dilute haemoglobin solutions (126)19;
The egress of oxygen from sheep erythrocytes after mixing with sodium dithionite (126)28
Sisco, Jr., P.H., see Zilversmit, D.B.
Sisler, H.D., see Siegel, M.R.
Sistrom, W.R., see Clayton, R.K.
Sitaj, Š., see Trnavská, Z.
Skavronskaya, A.G., see Gershanovitch, V.N.
Skehel, J.J.
—, Hay, A.J., Burke, D.C. and Cartwright, L.N.
Effects of actinomycin D and 2-mercapto-1-(β-4-pyridethyl)benzimidazole on the incorporation of [^{3}H]uridine by chick embryo cells (142)430
Skipski, V.P.
—, Barclay, M., Reichman, E.S. and Good, J.J.
Separation of acidic phospholipids by one-dimensional thin-layer chromatography (137)80
—, Smolowe, A.F., Sullivan, R.C. and Barclay, M.
Separation of lipid classes by thin-layer chromatography (106)386
Škoda, J., see Smrt, J.
Skou, J.C.
— and Hilberg, C.
Effect of SH-blocking reagents and of urea on the ($Na^+ + K^+$)activated enzyme system (110)359
Škreb, Y.
—, Eger, M. et Horvat, D.
Effets des rayons γ sur la teneur en RNA et en protéines des amibes (103)180
Skulachev, V.P.
—, Goldstein, I.I. and Roschupkin, D.I.
The low-temperature luminescent spectra of adenine and its derivatives (129)645
Škvařil, F.
—, Brummelová, V. and Franěk, F.
Isolation of κ and λ chains from normal human γG-immunoglobulin by ion-exchange chromatography (140)371
Sky-Peck, H.H., see Sinohara, H.
Slater, E.C., see Charles, R.; see De Haan, E.J.; see De Vijlder, J.J.M.; see Guillory, R.J.; see Ter Welle, H.F.; see Tobin, R.B.; see Vallejos, R.H.; see Zeylemaker, W.P.
Slater, T.F.
— and Smith, J.F.
Succinate–tetrazolium reductase systems. IV. Histochemical aspects (110)81
Slaughter, C., see Flavin, M.
Slayman, C.W.
— and Tatum, E.L.
Potassium transport in Neurospora. II. Measurement of steady-state potassium fluxes (102)149;
Potassium transport in Neurospora. III. Isolation of a transport mutant (109)184
—, see Mach, B.
Slayter, H.S., see Manner, G.

Sleisenger, M.H., see Weser, E.
Sletten, K., see Dus, K.
Slifkin, M.A.
Charge-transfer interactions of nucleic acid derivatives (103)365;
The tetramethyluric acid–riboflavin complex (109)617
Sloane, N.H.
Hydroxymethylation of the benzene ring. I. Microsomal formation of phenol via prior hydroxymethylation of benzene (107)599
— and Heinemann, M.
Hydroxymethylation of the benzene ring. II. Sequential formation of p-hydroxyanaline via hydroxymethylation of aniline by microsomes (141)47
—, see Smith, S.C.
Slobin, L.I.
— and Sela, M.
Use of urea in the purification of antibodies (107)593
Slobodian, E.S.
—, Newman, W., Fleisher, M. and Rubenfeld, S.
Modification of ribonuclease structure by γ-irradiation (111)181
Slooten, L., see Vredenberg, W.J.
Sloviter, H.A.
— and Bose, R.K.
Evaluation of synthesis of lipids by rabbit reticulocytes (116)156
— and Tanaka, S.
The biosynthesis of glycerides and glycerophosphatides by rabbit reticulocytes (137)70
Sluyser, M.
—, Thung, P.J. and Emmelot, P.
Inhibition of DNA synthesis in regenerating rat liver by the administration of histones in vivo (108)249
Sluyterman, L.A.AE.
Substrate binding by nonactivated papain (113)577;
The effect of methanol, urea and other solutes on the action of papain (139)418;
The activation reaction of papain (139)430;
Reversible inactivation of papain by cyanate (139)439
Sly, W., see Surdin, Y.
Small, D.M.
—, Bourgès, M.C. and Dervichian, D.G.
The biophysics of lipidic associations. I. The ternary systems lecithin–bile salt–water (125)563
—, see Bourgès, M.C.
Small, Jr., P.A., see Lamm, M.E.
Smeaton, J.R.
— and Elliott, W.H.
Isolation and properties of a specific bacterial ribonuclease inhibitor (145)547
Smeby, R.R., see Khairallah, P.A.
Smillie, L.B., see Parkes, C.O.
Smith, Jr., C.R., see Bagby, M.O.
Smith, C.W., see Metzger, J.F.
Smith, D.A.
—, Roy-Burman, P. and Visser, D.W.
Studies on 5-aminouridine (119)221
Smith, D.W.
— and Hanawalt, P.C.
Properties of the growing point region in the bacterial chromosome (149)519
Smith, F.A.
Active phosphate uptake in Nitella translucens (126)94
Smith, F.J., see Cilento, G.
Smith, H., see Attridge, T.H.
Smith, J., see Kornberg, H.L.
Smith, J.C.
—, Bernstein, G., Surks, M.I. and Oppenheimer, J.H.
A method of preparative starch-gel electrophoresis (115)81
Smith, J.F., see Slater, T.F.
Smith, Jr., J.G., see Clark, R.D.
Smith, J.T., see Brown, R.G.
Smith, K.C.
—, Hodgkins, B. and O'Leary, M.E.
The biological importance of ultraviolet light induced DNA–protein crosslinks in Escherichia coli 15 T⁻A⁻U⁻ (114)1
Smith, K.D.
—, Armstrong, J.L. and McCarthy, B.J.
The introduction of radioisotopes into RNA by methylation in vitro (142)323
Smith, L.
— and Minnaert, K.
Interaction of macroions with the respiratory chain system of mitochondria and heart-muscle particles (105)1
—, see Broberg, P.L.
Smith, L.D., see Ecker, R.E.
Smith, Jr., L.H., see Howard, B.
Smith, L.M., see Mohammadzadeh-K., A.
Smith, M.B., see McKenzie, H.A.
Smith, M.E., see Brindley, D.N.
Smith, M.F., see Ball, J.K.
Smith, M.J.
— and Beck, W.S.
Peroxidase activity of hemoglobin and its subunits: Effects thereupon of haptoglobin (147)324
Smith, R.A., see Holzer, M.E.; see Khandwala, P.K.
Smith, R.R., see Cain, C.E.
Smith, S.
— and Dils, R.
Factors affecting the chain length of fatty acids synthesized by lactating-rabbit mammary glands (116)23;
Fatty acid biosynthesis. II. Fate of fatty acids synthesized by subcellular fractions of lactating-rabbit mammary gland (125)435
—, Easter, D.J. and Dils, R.
Fatty acid biosynthesis. III. Fatty acid biosynthesis: Intracellular site of enzymes in lactating-rabbit mammary gland (125)445
Smith, S.C.
— and Sloane, N.H.
Hydroxymethylation of the benzene ring. III. Synthesis of the D and L isomers of p-(hydroxymethyl)phenylalanine and the biochemical properties of the L isomer (148)414
Smith, T.M., see Jackson, J.F.
Smith, U., see Cope, B.T.
Smith-Kielland, I.
The effect of mitomycin C on DNA and mRNA in Escherichia coli (114)254;
Effect of mitomycin C on RNA synthesis in growing cultures of Escherichia coli (119)486;
The effect of mitomycin C on the nucleotide pool of a growing culture of Escherichia coli (129)116;

DNA turnover in a strain of Escherichia coli treated with mitomycin C (138)542
Smolowe, A.F., see Skipski, V.P.
Smrt, J.
—, Škoda, J., Lisý, V. and Šorm, F.
Loss of coding properties of the trinucleotide guanylyluridylyl–uridine on replacement of uridylic by dihydrouridylic acid (129)210
— and Šorm, F.
Synthesis of trinucleotides containing arabinosides of uracil and/or cytosine (138)210
—, see Holý, A.
Smuckler, E.A., see Parthier, B.
Smulson, M.E., see Honig, G.R.
Smyth, D.H., see Bingham, J.K.
Snaith, S.M.
— and Levvy, G.A.
Purification of β-glucuronidase from the female-rat preputial gland on Sephadex (146)599
Snart, R.S.
Binding of aldosterone in the toad bladder (135)1056;
Molecular interaction of aromatic hydrocarbons in lipid monolayers (144)10
—, see Dalton, T.; see Eley, D.D.
Snell, F.M., see Chowdhury, T.K.
Snell, J.F., see Last, J.A.
Snoke, R.E.
— and Nordlie, R.C.
Comparative effects, in vitro, of various detergents on liver glucose-6-phosphate phosphohydrolase, inorganic pyrophosphate–glucose phosphotransferase, and acid inorganic pyrophosphatase activities (139)190
—, see Nordlie, R.C.
Snyder, F., see Pfleger, R.C.
Snyder, S.H.
— and Axelrod, J.
Sex differences and hormonal control of histamine methyltransferase activity (111)416
—, see Merril, C.R.
Sobel, H.
—, Lee, K.D. and Hewlett, M.J.
Effect of estrogen on acid glycosaminoglycans in skin of mice (101)225
Soberón, G., see Mora, J.
Socolar, S.J., see Politoff, A.
Soda, K.
—, Marble, S.J., Coles, N.W. and Meister, A.
Reduction of polylysyl-sRNA to polylysyl lysinol by lithium borohydride (103)534
—, Yorifuji, T. and Ogata, K.
Occurrence of arginine racemase in bacterial extract (146)606
Soeiro, R.
— and Amos, H.
mRNA half-life measured by use of actinomycin D in animal cells – a caution (129)406
Soeta, E., see Mukai, J.
Sojka, G.A.
— and Garner, H.R.
The serine biosynthetic pathway in Neurospora crassa (148)42
Sokol, F.
—, Graves, I.L. and Ackermann, W.W.
Concerning the molecular weight, shape and size of polyglucose isolated from HeLa cells (112)74
Sokoloff, L., see Krause, R.L.
Solheim, K., see Antonopoulos, C.A.
Söling, H.D.
—, Kattermann, R., Schmidt, H. and Kneer, P.
The redox state of NAD^+–NADH systems in rat liver during ketosis, and the so-called "triosephosphate block" (115)1
Solomon, D.H., see Beall, G.N.
Solomon, L.
—, Zeegen, P. and Eiserling, F.A.
The effects of high hydrostatic pressure on coliphage T-4 (112)101
Solomon, S., see Bird, C.E.
Sólyom, A.
—, Mühlbachova, E. and Puglisi, L.
Incorporation of [^{14}C]glucose and [9,10-$^3H_2$]-palmitic acid in vitro into lipids of adipose tissue from essential fatty acid-deficient rats (137)427
Somberg, E.W.
— and Davis, F.F.
Ribosomal nuclease activity of Neurospora crassa (108)137
—, Salmon, B.J. and Davis, F.F.
Some effects of methionine starvation on a methionine auxotroph of Neurospora crassa (129)419
Sommersville, J.
Immobilization antigen synthesis in Paramecium aurelia: The detection of labelled antigen in a cell-free amino acid incorporating system (149)625
Soodsma, J.F.
— and Nordlie, R.C.
Rat heart pyrophosphate phosphohydrolase activities: Sub-cellular distribution, catalytic properties, and hormonal responses (122)510
Soo-Hoo, T.S.
— and Brown, A.D.
A basis of the specific sodium requirement for morphological integrity of Halobacterium halobium (135)164
Sörbo, B., see Ewetz, L.
Sorger, G.J.
Nitrate reductase electron transport systems in mutant and in wild-type strains of Neurospora (118)484
— and Evans, H.J.
Effects of univalent cations on the properties of yeast NAD^+ acetaldehyde dehydrogenase (118)1
Šorm, F., see Čihák, A.; see Doskočil, J.; see Grünberger, D.; see Holý, A.; see Meloun, B.; see Mikeš, O.; see Mirzabekov, A.D.; see Smrt, J.; see Zadražil, S.
Šormová, Z., see Zadražil, S.
Sorrell, N.C., see Frisell, W.R.
Soška, J.
— and Lark, K.G.
Regulation of nucleic acid synthesis in Lactobacillus acidophillus R-26 (119)526
Soto, E.F., see Lapetina, E.G.
Sottocasa, G.L., see Cunningham, W.P.; see Romeo, D.
Souček, A.
—, Michalec, Č. and Součková, A.
Enzymic hydrolysis of sphingomyelins by a toxin of Corynebacterium ovis (144)180

Součková, A., see Souček, A.
Souleil, C.
—, Cayeux, P. et Panijel, J.
Immunochimie des polyribonucléotides. II. Complexes d'homopolymères différents (123)235
—, see Cayeux, P.; see Panijel, J.
Søvik, O.
The effect of puromycin on glycogen synthetase (141)190
—, Øye, I. and Rosell-Pérez, M.
The effect of anoxia, 2,4-dinitrophenol and 2-deoxyglucose on muscle glycogen synthetase (124)26
Spadoni, M.A., see Di Girolamo, A.
Spaeren, U., see Kleppe, K.
Sparrow, M.P.
— and Simmonds, W.J.
Relationship of the calcium content of smooth muscle to its contractility in response to different modes of stimulation (109)503
Spears, C.L., see Kohn, K.W.
Spence, G., see Wolfenden, R.
Spencer, J., see Cho, F.
Spencer, R.P.
—, Brody, K.R. and Vishno, F.E.
Role of the carboxyl group in intestinal amino acid transport (117)410
—, see Binder, H.J.
Speth, C., see Gerzon, K.
Spiegelstein-Klarfeld, H., see Rand-Meir, T.
Spiro, H.M., see Binder, H.J.
Spitkovsky, D.M., see Gorin, A.I.
Spitnik-Elson, P.
— and Zingher, S.
Aggregation properties of ribosomal protein from Escherichia coli (133)480
Spottswood, T., see Gallant, J.
Spragg, S.P.
— and Rankin, Jr., C.T.
The capacity of zones in density-gradient centrifugation (141)164
Sprecher, H.
The total synthesis and metabolism of 7,10,13,16-docosatetraenoate in the rat (144)296
Springer, G.F., see Bezkorovainy, A.
Sprössler, B., see Lingens, F.
Spruit, C.J.P.
Photoreversible pigment transformations in etiolated plants (112)186;
Low-temperature action spectra for transformations of photoperiodic pigments (120)454;
Abnormal phytochrome spectrum in leaves (143)260
Squire, P.G.
— and Bewley, T.
Adrenocorticotropins. XXXV. The optical rotatory dispersion of sheep adrenocorticotropic hormone in acidic and basic solutions (109)234
Squires, J.M., see Litwack, G.
Srere, P.A.
Palmityl-CoA inhibition of the citrate-condensing enzyme (106)445
Sribney, M.
Enzymatic synthesis of ceramide (125)542
Srinivasan, P.R., see Hendler, S.
Srivastava, B.I.S.
Effect of kinetin on nucleic acid synthesis in barley leaf segments (145)166
Srivastava, U., see Chaudhary, K.D.
Stachow, C.S.
— and Sanwal, B.D.
Regulation, purification, and some properties of the NAD-specific glutamate dehydrogenase of Neurospora (139)294
Staehelin, M., see Delihas, N.
Staehelin, T.
—, Verney, E. and Sidransky, H.
The influence of nutritional change on polyribosomes of the liver (145)105
Staerk, J.
— and Schlenk, H.
Interaction of potato phosphorylase with cycloamyloses (146)120
Stagni, N., see Romeo, D.
Stahl, M., see Budzyński, A.Z.
Stahly, D.P.
— and Bernlohr, R.W.
Control of aspartokinase during development of Bacillus licheniformis (146)467
Ställberg-Stenhagen, S., see Svennerholm, E.
Stalon, V.
—, Ramos, F., Piérard, A. and Wiame, J.M.
The occurrence of a catabolic and an anabolic ornithine carbamoyl transferase in Pseudomonas (139)91
—, see Ramos, F.
Stambaugh, R.
— and Post, D.
Effects of tissue extracts and temperature on lactate dehydrogenase isozymes (122)541
Stanbury, J., see Lemberg, R.
Stanbury, J.B., see Karmarkar, M.G.
Stanbury, J.T., see Mansley, G.E.
Stand, F., see Savitsky, J.P.
Standish, M.M.
— and Pethica, B.A.
Interactions in phospholipid–cholesterol mixed monolayers at the air–water interface (144)659
St. Angelo, A.J.
—, Conkerton, E.J., Dechary, J.M. and Altschul, A.M.
Modification of edestin with N-carboxy-DL-alanine anhydride (121)181
Stanier, R.Y., see Sunada, K.V.
Stanley, P.G., see Pierce, J.G.
Stanners, C.P., see Taylor, J.M.
Staple, E., see Masui, T.
Staprans, I.
— and Taylor, F.B.
Selective inhibition of streptokinase activation of plasminogen by aldehydes (110)148
Starcher, B.
— and Hill, C.H.
Isolation and characterization of induced ceruloplasmin from chicken serum (127)400
Stárka, L.
— and Breuer, H.
Biosynthesis of non-phenolic aromatic C_{18}-steroids in perfused human placenta (115)306
—, Hampl, R. and Breuer, H.
Enzymatic formation of Δ^4-androstene-3α,17α-diol and Δ^4-androstene-3β,17α-diol from epitestosterone (144)487
—, Šulcová, J., Dahm, K., Döllefeld, E. and

Breuer, H.
7α-Hydroxylation of Δ^5-pregnenolone and of its conjugates by rat-liver microsomes (115)228
Starr, J.L.
Methylation of the RNA of Escherichia coli K12 W-6 during partial deprivation of methionine (103)696
Stason, W.B.
—, Vallotton, M. and Haber, E.
Synthesis of an antigenic copolymer of angiotensin and succinylated poly-L-lysine (133)582
Staub, M.
— and Dénes, G.
Mechanism of arginine biosynthesis in Chlamydomonas reinhardti. I. Purification and properties of ornithine acetyltransferase (128)82;
A kinetic study of the mechanism of action of 3-deoxy-D-arabino-heptulosonate-7-phosphate synthase in Escherichia coli K12 (132)528;
A kinetic study on the inactivation of 3-deoxy-D-arabino-heptulosonate-7-phosphate synthase by bromopyruvate (139)519;
Thermodynamic properties of the allosteric transition of 3-deoxy-D-arabino-heptulosonate-7-phosphate synthase (146)623
Stead, N.W.
— and Jones, Jr., O.W.
The binding of RNA polymerase to DNA: Stabilization by nucleoside triphosphates (145)679
Steel, G., see Brooks, C.J.W.
Steele, W.J.
— and Busch, H.
Increased content of high molecular weight RNA fractions in nuclei and nucleoli of livers of thioacetamide-treated rats (119)501;
Studies on the RNA components of the nuclear ribonucleoprotein network (129)54
—, see Muramatsu, M.; see Villalobos, Jr., J.G.
Steelink, C., see Tollin, G.
Steelman, V.S.
— and Ebner, K.E.
The enzymes of lactose biosynthesis. I. Purification and properties of UDPG pyrophosphorylase from bovine mammary tissue (128)92
Steers, E., see Givol, D.
Steers, Jr., E.
— and Shifrin, S.
Characterization of the β-galactosidase from lactose negative, complementing mutant of Escherichia coli K12 (133)454
—, see Shifrin, S.
Steffen, H., see Augustin, H.W.
Steim, J.M.
Monogalactosyl diglyceride: A new neurolipid (144)118
Stein, G., see Mee, L.K.
Stein, H., see Silber, R.
Stein, O.
— and Stein, Y.
Utilization of lysolecithin by Landschütz ascites tumor in vivo and in vitro (137)232
—, see Eisenberg, S.; see Rachmilewitz, D.; see Stein, Y.
Stein, P., see Eisenberg, S.
Stein, W.D., see Levine, M.
Stein, Y.
— and Stein, O.
Metabolism of lysolecithin by the perfused rat heart (106)527;
Metabolism of labeled lysolecithin, lysophosphatidyl ethanolamine and lecithin in the rat (116)95
—, see Eisenberg, S.; see Graf, E.; see Rachmilewitz, D.; see Stein, O.
Steinberg, D., see Baxter, J.H.
Steiner, D.F.
— and King, J.
Insulin-stimulated RNA synthesis and RNA polymerase activity in alloxan-diabetic rat liver (119)510
—, see Cunningham, D.D.; see Roskoski, Jr., R.
Steiner, H., see Danishefsky, I.
Steiner, R.F., see Millar, D.B.S.
Steinman, G.
—, Kenyon, D.H. and Calvin, M.
The mechanism and protobiochemical relevance of dicyanamide-mediated peptide synthesis (124)339
Stenesh, J.
— and Holazo, A.A.
Studies of the rRNA from mesophilic and thermophilic bacteria (138)286
Stepanov, V.M.
— and Matyash, L.P.
Specific acylation of chymotrypsin with S-carboxy methyl mercaptide of p-mercuri benzoyl azide (124)406
—, Ostoslavskaya, V.I., Krivtzov, V.F., Muratova, G.L. and Levin, E.D.
Characteristic features of the C-terminal fragment of hog pepsin (140)182
—, Vakhitova, E.A., Egorov, C.A. and Avaeva, S.M.
Sequence of amino acids surrounding the phosphoserine residue in hog pepsin (110)632
—, see Kuznetzov, Yu.S.
Stephenson, J., see Atkinson, M.R.
Stern, A.I.
— and Avron, M.
An adenosine 5'-diphosphate ribose:orthophosphate adenylyltransferase from Euglena gracilis (118)577
Sternbach, H., see Eckstein, F.
Stetten, M.R.
— and Burnett, F.F.
Activation of rat-liver microsomal glucose-6-phosphatase, inorganic pyrophosphatase and inorganic pyrophosphate–glucose phosphotransferase by hydroxyl ion (128)344;
Some properties of variously activated microsomal glucose-6-phosphatase, inorganic pyrophosphatase and inorganic pyrophosphate–glucose phosphotransferase. Shift in pH optimum (139)138
—, see Fisher, C.J.
Steven, F.S.
Binding of amino acids and peptides to gelatin (104)189;
The depolymerising action of pepsin on collagen. Molecular weights of the component polypeptide chains (130)190;
Single-stage partial depolymerisation of collagen fibrils (130)196;
Multiple-stage depolymerisation of collagen

Steven F.S. (continued)
fibrils (130)202;
The effect of chelating agents on collagen interfibrillar matrix interactions in connective tissue (140)522
—, see Worrall, J.
Stevens, B.J., see Sinclair, J.H.
Stevens, F.C., see Simlot, M.M.
Stevenson, E.
Rapid oxidation of palmitate with concomitant phosphorylation of ADP by moth flight muscle mitochondria (128)29
Stevenson, F.K.
— and Stevenson, G.T.
Antibody activity in the presence of urea or guanidine (133)162
Stevenson, G.T., see Stevenson, F.K.
Stevenson, R., see Friedman, O.M.
Stewart, J.A.
— and Papaconstantinou, J.
Lactate dehydrogenase isozymes and their relationship to lens cell differentiation (121)69
—, see Papaconstantinou, J.
Stewart, J.C., see Brown, D.M.
Stewart, P.A., see Portela, A.
Stewart, W.E., see Glick, R.E.
Steyn-Parvé, E.P.
— and Boer, P.
Isolation and purification of an acid phosphatase from baker's yeast (128)400
Stiles, J.W.
— and Crane, F.L.
The demonstration of the elementary particles of mitochondrial membranes fixed with glutaraldehyde (126)179
Still, C.C.
— and Price, C.A.
Bulk separation of chloroplasts with intact membranes in the zonal centrifuge (141)176
Stiller, M., see Lee, J.K.-H.
Stirpe, F., see Fiume, L.
Stitzer, K.L., see Ressler, N.
Stoddard, S.K., see Malt, R.A.
Stojan, B., see Prokopová, D.
Stokke, O.
—, Try, K. and Eldjarn, L.
α-Oxidation as an alternative pathway for the degradation of branched-chain acids in man, and its failure in patients with Refsum's disease (144)271
—, see Eldjarn, L.
Stokstad, E.L.R., see Kutzbach, C.
Stolzberg, S., see Wittenberg, B.A.
Stone, A.J., see Baker, P.F.
Stone, A.L.
Aggregation of cationic dyes on acid polysaccharides. II. Quantitative parameters of metachromasy (148)193
— and Bradley, D.F.
Aggregation of cationic dyes on acid polysaccharides. I. Spectrophotometric titration with acridine orange and other metachromatic dyes (148)172
— and Moss, H.
Anomalous rotatory dispersion of metachromatic mucopolysaccharide–dye complexes. II. Heparin–methylene blue complexes at acidic pH (136)56
Stone, M.J., see Krane, S.M.
Stoppani, A.O.M., see Cataldi, M.A.; see De Boiso, J.F.; see Vallejos, R.H.; see Widuczynski, I.
Stotz, E., see Courtade, S.; see Martin, A.P.
Stouffer, J.E.
—, Jaakonmäki, P.I. and Wenger, T.J.
Gas–liquid chromatographic separation of thyroid hormones (127)261
—, Watters, Jr., J.A.
Reversible masking of lysine residue of α-melanocyte-stimulating hormone (104)214
Stout, E.R.
— and Mans, R.J.
Partial purification and properties of RNA polymerase from maize (134)327
Stouthamer, A.H., see De Vries, W.
Straatsma, B.R., see Hall, M.O.
Strain, H.H.
—, Sherma, J., Benton, F.L. and Katz, J.J.
One-way paper chromatography of the chloroplast pigments of leaves (109)1;
Two-way paper chromatography of the chloroplast pigments of leaves (109)16;
Radial paper chromatography and columnar chromatography of the chloroplast pigments of leaves (109)23
Strand, J.A., see Cummins, J.T.
Straub, B.F., see Csányi, V.
Strecker, H.J., see Di Prisco, G.
Streffer, C.
Eine Methode zur Bestimmung der Dekarboxylase aromatischer Aminosäuren (139)193
— und Langendorff, H.-U.
Bestimmung der Kynurenin Aminotransferase (132)518
Strehler, B.L., see Menzies, R.A.
Strickland, E.H.
— and Davis, B.C.
Ferric iron uptake by rat-liver mitochondria (104)596
Strickland, K.P., see Graff, G.L.A.
Strid, L., see Nyman, P.O.
Strom, R., see Cerletti, P.
Strominger, J.L., see Ishimoto, N.
Struijk, C.B.
— and Beerthuis, R.K.
The enzymic conversion of 3cis- and 3trans-alkenoyl-CoA esters into their 2trans-isomers (116)12
—, see Van Dorp, D.A.
Stuart, A., see Jackson, J.F.
Stumpp, S., see Boedtker, H.
Stupp, Y.
— and Sela, M.
Further studies on the immunogenicity of D-amino acid polymers (140)349
—, see Borek, F.
Su, S.
— and Russell, P.J.
Adenylate kinase from baker's yeast. II. Substrate specificity (132)370
—, see Chiu, C.S.
Šubík, J., see Kováč, L.
Subirana, J.A.
Irreversible denaturation of bacteriophage DNA (103)13
Sudo, A., see Chino, H.
Suelter, C.H.
— and Arrington, S.

Oxygen-18 studies with citrate synthase (141)423
—, see Harris, M.
Sugano, H., see Ogata, K.; see Takahashi, Y.; see Terao, K.
Sugano, M.
— and Wada, M.
Comparative studies on the turnover and fate of plasma cholesterol in the chicken (137)315
Sugimori, T., see Chassy, B.M.
Sugimura, T.
—, Fujimura, S., Hasegawa, S. and Kawamura, Y.
Polymerization of the adenosine 5'-diphosphate ribose moiety of NAD by rat liver nuclear enzyme (138)438
—, Okabe, K., Nagao, M. and Gunge, N.
A respiration-deficient mutant of Saccharomyces cerevisiae which accumulates porphyrins and lacks cytochromes (115)267
— and Tanooka, H.
Photoreactivation of heme-protein lacking yeast (136)154
—, see Fujimura, S.; see Hasegawa, S.; see Hirata, Y.; see Nagao, M.
Sugino, Y., see Hiraga, S.; see Kato, K.
Sugiura, N., see Yagi, K.
Sugiyama, M., see Muraoka, S.
Suhadolnik, R.J.
—, Uematsu, T. and Uematsu, H.
Toyocamycin: Phosphorylation and incorporation into RNA and DNA and the biochemical properties of the triphosphate (149)41
—, see Chassy, B.M.; see Cory, J.G.
Sukumaran, P.K.
— and Pik, C.
Some observations on haemoglobin L_{Bombay} (104)290
Šulcová, J., see Stárka, L.
Sulkowski, E., see Guerin, B.
Sullivan, B.
— and Riggs, A.
The subunit dissociation properties of turtle hemoglobins (140)274
Sullivan, P.D., see Forbes, W.F.
Sullivan, R.C., see Skipski, P.
Sulston, J.E., see Reese, C.B.
Sulya, L.L., see Bell, Jr., O.E.; see Cain, C.E.
Sun, F.F.
— and Jacobs, E.E.
A simplified procedure for the preparation of cytochrome oxidase by non-ionic detergent (143)639
Sunada, K.V.
— and Stanier, R.Y.
Observations on the pathway of carotenoid synthesis in Rhodopseudomonas (107)38
Sunaga, K., see Miura, Y.
Sundaram, T.K.
Biosynthesis of NAD in Escherichia coli (136)586;
Phenotypic reversal by 5-fluorouracil of the auxotrophy of am mutants of Neurospora crassa (138)611
Sundaresan, P.R.
Vitamin A and the sulfate-activating enzymes (113)95
Sung, C.-P., see Johnstone, R.M.
Sung, S.-C.
Inhibition of deoxyribonuclease from Ehrlich ascites tumor cells by sarkomycin (134)461
Sunouchi, E.
—, Maruyama, K. and Noda, H.
Effect of urea on the aggregation of myosin at low ionic strength (120)229
Suranyi, E.M.
— and Avi-Dor, Y.
Swelling–contraction of mitochondria in hypotonic medium (118)445
Surdin, Y.
—, Sly, W., Sire, J., Bordes, A.M. et De Robichon-Szulmajster, H.
Propriétés et contrôle génétique du système d'accumulation des acides amines chez Saccharomyces cerevisiae (107)546
Surks, M.I., see Smith, J.C.
Susor, W.A.
— and Krogmann, D.W.
Triphosphopyridine nucleotide photoreduction with cell-free preparations of Anabaena variabilis (120)65
Sussman, M.
— and Sussman, R.R.
The regulatory program for UDPgalactose polysaccharide transferase activity during slime mold cytodifferentiation: Requirement for specific synthesis of RNA (108)463
—, see Roth, R.
Sussman, R.R.
RNA metabolism during cytodifferentiation in the cellular slime mold, Polysphondelium pallidum (149)407
—, see Sussman, M.
Sutherland, E.W., see Falbriard, J.-G.; see Henion, W.F.; see Øye, I.
Sutherland, Jr., E.W., see Bueding, E.
Sutherland, I.W.
— and Wilkinson, J.F.
Composition of lipopolysaccharides of Klebsiella aerogenes and Aerobacter cloacae (117)261
Sutherland, L., see Moscarello, M.A.
Sutherland, R.M.
— and Pihl, A.
Repair of radiation damage to membrane sulfhydryl groups of human erythrocytes (135)568
Sutter, R.P.
—, Gasior, E. and Moldave, K.
The site of action of sulfhydryl compounds in the aminoacyl-sRNA transfer reaction in protein synthesis (108)719
Suyama, T.
—, Iga, Y. and Kawano, T.
The inhibitory effect of protoporphyrin on the fibrinolytic system in vitro (127)258
Suzue, G.
—, Tsukada, K. and Tanaka, S.
A new triterpenoid from a mutant of Staphylococcus aureus (144)186
Suzuka, I.
— and Kaji, A.
Studies on diphenylalanine synthesis (149)540
Suzuki, H.
— and Iino, T.
An assay for newly synthesized intracellular flagellin (124)212
—, see Katagiri, M.

Suzuki, I.
Oxidation of elemental sulfur by an enzyme system of Thiobacillus thiooxidans (104)359; Incorporation of atmospheric oxygen-18 into thiosulfate by the sulfur-oxidizing enzyme of Thiobacillus thiooxidans (110)97
— and Silver, M.
The initial product and properties of the sulfur-oxidizing enzyme of Thiobacilli (122)22
—, see Charles, A.M.
Suzuki, K.
—, Podulso, S.E. and Norton, W.T.
Gangliosides in the myelin fraction of developing rats (144)375
—, see Ando, T.; see Moriguchi, E.
Suzuki, M., see Hachimori, Y.
Suzuki, N., see Yoshino, M.
Suzuki, R., see Sato, K.
Suzuki, S., see Yamagata, T.
Suzuki, T.
—, Hayashi, A., Shimizu, A. and Yamamura, Y.
The oxygen equilibrium of haemoglobin $M_{Saskatoon}$ (127)280
—, see Hayashi, A.
Svendsen, I., see Johansen, J.T.
Svennerholm, E.
—, Ställberg-Stenhagen, S. and Svennerholm, L.
Fatty acid composition of sphingomyelins in blood, spleen, placenta, liver, lung and kidney (125)60
Svennerholm, L., see Svennerholm, E.
Svensson, H., see Vesterberg, O.
Svensson, I.
Studies on methionyl-tRNA synthetase. I. Effects of divalent and monovalent cations on methionyl-tRNA synthetase from Saccharomyces cerevisiae (146)239; Studies on methionyl-tRNA synthetase. II. Effects of divalent and monovalent cations on methionyl-tRNA synthetase from Escherichia coli (146)253
—, see Björk, G.R.
Sverdlov, E.D., see Kochetkov, N.K.
Swaffield, M.N., see Bucher, N.L.R.
Swain, R.R.
— and Dekker, E.E.
Seed germination studies. I. Purification and properties of an α-amylase from the cotyledons of germinating peas (122)75; Seed germination studies. II. Pathways for starch degradation in germinating pea seedlings (122)87
Swanbeck, G.
Interaction between DNA and some anthracene and anthraquinone derivatives (123)630
Swann, D.A.
— and Balazs, E.A.
Determination of the hexosamine content of macromolecules with manual and automated techniques using the p-dimethylaminobenzaldehyde reaction (130)112
Sweeney, E.A., see Winkler, M.H.
Swensen, A.D.
— and Vernon, L.P.
Oxygen evolution coupled to reduction of manganipyrophosphate ion by illuminated spinach chloroplasts (102)349
Swewczuk, A.
— and Connell, G.E.
Reaction of iodoacetamide with the active center of γ-glutamyl transpeptidase (105)352
Swindlehurst, M., see Firshein, W.
Swinehart, J.H.
— and Hess, G.P.
Riboflavin–tryptophan complex formation as a criterion for "buried" and "exposed" tryptophyl residues in proteins (104)205
Swingle, K.F.
—, Cole, L.J. and Bailey, J.S.
Association of neutral deoxyribonuclease with chromatin isolated from mammalian cells (149)467
Sybesma, C.
— and Beugeling, T.
Light-induced absorbance changes in the green photosynthetic bacterium Chloropseudomonas ethylicum (131)357
Sykes, J.
— and Gibbon, J.A.
ATP production in the light and the dark by vesicle preparations isolated from Chlorobium thiosulphatophilum L660 (143)173
—, Gibbon, J.A. and Hoare, D.S.
The macromolecular organisation of cell-free extracts of Chlorobium thiosulphatophilum L660 (109)409
— and Tempest, D.W.
Effect of magnesium and of carbon limitation on the macromolecular organisation and metabolic activity and Pseudomonas sp., strain C-1B (103)93
Symons, R.H.
The DNA component of cytochrome b_2. I. Isolation of b_2-DNA and the behaviour of cytochrome b_2 during chromatography on DEAE-cellulose and sedimentation in a sucrose gradient (103)298
— and Ellery, B.W.
The DNA component of cytochrome b_2. III. Base sequence studies on preparations of yeast DNA (145)368
—, see Burgoyne, L.A.; see Greenlees, A.W.; see Nicholls, R.G.
Szabó, G.
—, Békési, I. and Vitális, S.
Mode of action of Factor C, a substance of regulatory function in cytodifferentiation (145)159
Szczepkowski, T.W.
— and Wood, J.L.
The cystathionase–rhodanese system (139)469
Székely, M.
—, Beney, L., Gaál, Ö. and Tamás, G.
RNA structure and biological activity of ribosomes from liver and pancreas (134)475
—, Beney, L., Gaál, Ö. and Vincze, S.
Electrophoretic studies on proteins and RNA's of free and membrane-bound ribosomes (123)574
Szirmai, J.A.
—, Van Boven-de Tyssonsk, E. and Gardell, S.
Microchemical analysis of glycosaminoglycans, collagen, total protein and water in histological layers of nasal septum cartilage (136)331

Tagashira, Y., see Kodama, M.
Tager, J.M., see Charles, R.; see De Haan, E.J.; see Papa, S.; see Scholte, H.R.
Tagg, J., see Mitoma, C.
Takagi, T.
— and Isemura, T.
Extent of renaturation of reduced Taka-amylase A before reformation of disulfide bonds (130)232
—, see Aki, K.
Takagi, Y., see Matushita, Y.; see Shimada, K.
Takahashi, H.
—, Saito, H. and Ikeda, Y.
Species specificity of rRNA cistrons in bacteria (134)124
Takahashi, K., see Sato, H.
Takahashi, T.
—, Ramachandramurthy, P. and Liener, I.E.
Some physical and chemical properties of a phytohemagglutinin isolated from Phaseolus vulgaris (133)122
—, see Nohara, H.; see Sells, B.H.
Takahashi, Y.
—, Mase, K. and Sugano, H.
Preparation of polysomes from rat brain tissue (119)627
—, see Ebata, M.
Takai, M.
Complex formation by protein and nucleic acid. I. Evidence for specific interaction between ΦX174 phage protein and ΦX174 phage DNA in vitro (119)20
Takai, N.
—, Uchida, T. and Egami, F.
Purification and properties of ribonuclease N_1, an extracellular ribonuclease of Neurospora crassa (128)218
Takaku, F., see Wada, O.
Takamiya, A., see Murata, N.; see Nishimura, M.
Takao, T.
— and Kanazawa, A.
Isolation of L-α-aminoadipic acid from hog liver (117)490
Takebe, I.
Extent of cross-linkage in the murein sacculus of Escherichia coli B cell wall (101)124
Takeda, Y.
—, Hizukuri, S. and Nikuni, Z.
Crystallization and properties of pea glucosephosphate isomerase (146)568
—, Inoue, H., Honjo, K., Tanioka, H. and Daikuhara, Y.
Dietary response of various key enzymes related to glucose metabolism in normal and diabetic rat liver (136)214
—, see Adachi, K.; see Inoue, H.
Takeishi, K.
—, Nishimura, S. and Ukita, T.
Purification of histidine-specific tRNA from yeast (145)605
—, see Hayatsu, H.
Takemori, S., see Ando, K.; see Katagiri, M.
Takeuchi, N.
—, Iritani, N., Wells, W.W. and Westerman, M.P.
Cholesterol biosynthesis in rabbit blood and bone marrow: Effect of hematopoietic stimulation and dietary cholesterol (125)375
Talalay, P.
— and Boyer, J.
Preparation of crystalline Δ^5-3-ketosteroid isomerase from Pseudomonas testosteroni (105)389
Talaranta, T., see Raina, A.
Täljedal, I.-B.
Some aspects of the apparent glucose-6-phosphatase activity in the pancreatic islets of mammals (146)292
Tam, B.D., see Greenberg, D.M.
Tamai, A., see Yoneyama, Y.
Tamai, K.T., see Williams, M.A.
Tamaoki, B., see Inano, H.; see Murota, S.; see Nakamura, Y.; see Nakano, H.; see Oshima, H.; see Shikita, M.
Tamaoki, T.
— and Mueller, G.C.
Effects of actinomycin D and puromycin on the formation of ribosomes in HeLa cells (108)73;
Rapidly labeled ribonucleoprotein in HeLa cell nuclei (108)81
—, see Miyazawa, F.
Tamás, G., see Székely, M.
Tamura, G., see Arima, K.; see Yamaguchi, T.
Tan, W.C., see Blair, P.V.
Tanabe, M., see Mitoma, C.
Tanaka, K.
— and Teraoka, H.
Binding of erythromycin to Escherichia coli ribosomes (114)204
Tanaka, M., see Wakabayashi, K.
Tanaka, S., see Izui, K.; see Shigesada, K.; see Sloviter, H.A.; see Suzue, G.
Tanaka, Y., see Kaji, H.
Tancredi, J.F., see Hammes, G.G.
Tang, G., see Cayen, M.N.
Taniguchi, S., see Chance, B.
Tanioka, H., see Adachi, K.; see Takeda, J.
Taniuchi, H., see Mori, M.; see Nakazawa, A.
Tanooka, H., see Sugimura, T.
Tanzer, M.L.
Collagen crosslinks: Stabilization by borohydride reduction (133)584
Tapley, D.F., see Leventer, L.L.
Tappel, A.L., see Hsu, L.; see Mellors, A.; see Ragab, H.; see Toubal, W.T.
Tarentino, A.L.
—, Richert, D.A. and Westerfeld, W.W.
The concurrent induction of hepatic α-glycerophosphate dehydrogenase and malate dehydrogenase by thyroid hormone (124)295
Tarlow, O., see Watkins, J.
Tarrab, R., see Mora, J.
Tarver, H., see Natori, Y.; see Virupaksha, T.K.
Tasaki, A.

Tasaki, A. (continued)
—, Otsuka, J. and Kotani, M.
Magnetic susceptibility measurements on hemoproteins down to 4.2°K (140)284
Tasaki, I.
—, Yoshinaga, M. and Hayashi, H.
Further study of permeability factors mediating increased vascular response in cutaneous Arthus-type inflammation (130)260
—, see Yoshinaga, M.
Tashima, Y.
—, Nakao, T., Nagano, K., Mizuno, M. and Nakao, M.
Partial purification and characterization of Na^+ and K^+-dependent ATPase from rat-heart muscle (117)54
—, see Fujita, M.; see Nagano, K.
Tashiro, Y.
— and Morimoto, T.
Sedimentation studies on the interaction of ribosomal subunits from liver (123)523
—, see Morimoto, T.
Tata, J.R., see Hamilton, T.H.; see Widnell, C.C.
Tate, S.S., see Eisenthal, R.
Tatum, E.L., see Crocken, B.; see Kurylo Borowska, Z.; see Piña, E.; see Slayman, C.W.
Taylor, A.McM., see Walters, C.L.
Taylor, B.F., see Bowen, T.J.
Taylor, D.R., see Bennett, R.
Taylor, F.B., see Staprans, I.
Taylor, Jr., F.B., see James, K.
Taylor, J.M.
— and Stanners, C.P.
A note on the incorporation of amino acids by hamster embryo cells in monolayer culture (138)627
Taylor, K., see Newsholme, E.A.
Taylor, K.W., see Howell, S.L.
Taylor, M.W., see Lerner, J.
Tecce, G.; see Arcà, M.; see Mangiantini, M.T.
Tecson, J., see Grisolia, S.
Tedeschi, H.
—, Hegarty, H.J. and James, J.M.
Osmotic reversal of phosphate induced mitochondrial swelling (104)612
Tee, D.E.H., see Watkins, J.
Teebor, G.W., see Seidman, I.
Teeter, E., see Tyndall, R.L.
Temperli, A.
—, Mayer, K., Künsch, U. und Busch, I.
Reinigung und Eigenschaften der Malatdehydrogenase (decarboxylierent) aus Hefe (110)630
Tempest, D.W., see Dicks, J.W.; see Sykes, J.
Ten Cate, G., see Van Dam, A.F.
Tenenbaum, D.
— and Folch-Pi, J.
The preparation and characterization of water-soluble proteolipid protein from bovine brain white matter (115)141
Ten Ham, M., see Thomas, J.B.
Tentori, L.
—, Vivaldi, G., Carta, S., Velani, S. and Zito, R.
The hemoglobin of amphibia. V. The amino-terminal residues and the carboxyl-terminal sequences of the hemoglobin of Rana esculenta L. (133)177
Terao, K.
—, Katsumi, H., Sugano, H. and Ogata, K.
Studies on the biosynthesis of structural proteins of liver ribosomes. I. The incorporation of labelled amino acids into basic structural proteins of liver ribosomes in vivo (138)369
—, see Ogata, K.
Terao, T.
— and Ukita, T.
Studies on the inactivation of ribonuclease T_1 by iodoacetate (149)613
Teraoka, H., see Tanaka, K.
Terawaki, A.
— and Greenberg, J.
Inactivation of transforming DNA by carzinophillin and mitomycin C (119)59;
Post-treatment breakage of mitomycin C induced cross-links in DNA of Escherichia coli (119)540
Terayama, H., see Bannai, S.; see Otsuka, H.
Terpstra, W.
Experiments on the extraction and photoconversion of Chenopodium chlorophyll protein CP 668 (120)317;
A factor from spinach leaves interacting with chlorophylls (143)221
— and Goedheer, J.C.
Fluorescence measurements at Chenopodium chlorophyll protein CP 668 (120)326
Terry, T.M.
—, Engelman, D.M. and Morowitz, H.J.
Characterization of the plasma membrane of Mycoplasma laidlawii. II. Modes of aggregation of solubilized membrane components (135)391
—, see Engelman, D.M.
Tertrin, C.
—, De la Llosa, P. et Jutisz, M.
Etude de quelques constantes physico-chimiques de l'hirudine (124)380
—, see De la Llosa, P.
Ter Welle, H.F.
— and Slater, E.C.
Uncoupling of respiratory-chain phosphorylation by arsenate (143)1
Terzuolo, C.A.
—, Chance, B., Handelman, E., Rossini, L. and Schmelzer, P.
Measurements of reduced pyridine nucleotides in a single neuron (126)361
Thang, M.N.
—, Graffe, M. and Grunberg-Manago, M.
Synthesis of polyguanylic acid by polynucleotide phosphorylase of Escherichia coli (108)125
Thatcher, G.N., see Peart, W.S.
Thauer, R.K., see Decker, K.
Thei, E.C.
The synthesis of hemoglobin and the non-hemoglobin protein of amphibian red blood cells related to metamorphosis (138)175
Thiebe, R.
— und Zachau, H.G.
Zur Fraktionierung der löslichen Ribonucleinsäure (103)568
Thiele, O.W.
— and Kröber, G.
Observation on plasmogen cleavage catalyzed by mercuric chloride (106)421
—, Petersen, K.F., Nowak, P. und Urbaschek, B.

Unspecific inhibition of streptolysin O by lipids (106)427
—, see Wober, W.
Thiem, N.V., see Thoai, N.V.
Thier, S.O.
—, Blair, A., Fox, M. and Segal, S.
The effect of extracellular sodium concentration on the kinetics of α-aminoisobutyric acid transport in the rat kidney cortex slice (135)300
Thoai, N.V.
—, Di Jeso, F., Robin, Y. et Der Terrossian, E.
Sur la nouvelle ATP:guanidine phosphotransférase, l'ophéline kinase (113)542
—, Kassab, R. et Pradel, L.A.
Comparaison des poids moléculaires des ATP:guanidino phosphotransférases (110)532
—, Thiem, N.V., Lacombe, G. et Roche, J.
Hétéroenzymes d'ATP:L-arginine phosphotransférase (122)547
—, Thome-Beau, F. et Olomucki, A.
Induction et spécificité des enzymes de la nouvelle voie catabolique de l'arginine (115)73
—, see Der Terrossian, E.; see Kassab, R.; see Pho, D.B.
Thomas, Jr., G.J., see Lord, R.C.
Thomas, J.B.
—, Kleinen Hammans, J.W. and Arnolds, W.J.
Studies on the red absorption band of chlorophyll a in vivo (102)324
—, Van Lierop, J.H. and Ten Ham, M.
Dichroism in spinach chloroplasts (143)204
Thome-Beau, F., see Thoai, N.V.
Thompson, A.R., see Koblick, D.C.
Thompson, C.M.
— and Whittingham, C.P.
Intracellular localisation of phosphoglycollate phosphatase and glyoxalate reductase (143)642
Thompson, J.E.
—, Coleman, R. and Finean, J.B.
Some biochemical and X-ray diffraction studies of mitochondrial outer membrane (135)1074
Thompson, J.F., see Doney, R.C.; see Goore, M.Y.
Thompson, P.G., see Schuntner, C.A.
Thompson, T.E., see Pagano, R.
Thomson, J.F., see Rahman, Y.E.
Thornber, J.P., see Ridley, S.M.
Thorsett, G., see Köhnlein, W.
Threlfall, D.R.
—, Griffiths, W.T. and Goodwin, T.W.
Isolation of two analogues of plastoquinone from senescent leaves of tobacco (102)614
Thrower, K.J.
— and Peacocke, A.R.
The kinetics of renaturation of DNA (119)652
Thrum, H., see Zimmer, Ch.
Thung, P.J., see Sluyser, M.
Thürkauf, M., see Richter, J.
Thurman, P.F., see Gray, G.W.
Tieckelmann, H., see Tomlinson, R.V.
Tigier, H.
—, Kennedy, J. and Grisolia, S.
Competitive inhibition of argininosuccinate synthesis by δ-acetylornithine (110)423
Tigier, H.A., see Novoa, W.B.
Tikhonenko, T.I.
— and Perevertaylo, G.A.
The selective sensitivity of different states of denatured DNA to chloroform precipitation (103)542
—, see Gorin, A.I.
Tilley, C.J., see Miyazawa, F.
Timms, A.R., see Bueding, E.
Tinoco, J., see Lyman, R.L.
Tinsley, I.J., see Lowry, R.R.
Tipton, K.F.
Agavain: A metalloproteinase (110)414;
The sub-mitochondrial localization of monoamine oxidase in rat liver and brain (123)910
Tisdale, H.D., see Salach, J.
Tisne, M.R., see Ekert, B.
Titus, E.O., see Israel, Y.
Tjeder, C., see Hofsten, B.V.
Tobin, R.B.
— and McIlwain, H.
The effect of oligomycin on the respiration and glycolysis of electrically stimulated brain slices (105)191
— and Slater, E.C.
Effect of oligomycin on the respiration of tissue slices (105)214
Tobita, T.
— and Folk, J.E.
Chymotrypsin C. III. Sequence of amino acids around an essential histidine residue (147)15
Toczko, M.
Induced lupanine hydroxylase from Pseudomonas lupanini (128)570
Toda, G.
—, Hashimoto, T., Asakura, T. and Minakami, S.
The inhibition of (Na^+-K^+)-activated ATPase by beryllium (135)570
Todaro, G.J., see Hamerman, D.
Tohver, M., see Margna, U.
Tolberg, A.B.
— and Macey, R.I.
Osmotic behavior of spinach chloroplasts (109)424
—, see Macey, R.I.
Tolbert, N.E., see Baker, A.L.
Tollin, G.
— and Steelink, C.
Biological polymers related to catechol: Electron paramagnetic resonance and infrared studies of melanin, tannin, lignin, humic acid and hydroxyquinones (112)377
—, see Pereira, J.F.
Tomášek, V., see Mikeš, O.
Tomasz, M.
— and Chambers, R.W.
Periodate oxidation of pseudouridine (108)510
Tomizawa, H.H., see Varandani, P.T.
Tomlinson, C.A.
— and Campbell, J.J.R.
Species specificity of sRNA's and aminoacyl-sRNA synthetase in some aerobic bacteria (123)337
Tomlinson, R.V.
Acetate as a methyl group precursor in the pyrimidine moiety of thiamine (115)526
—, Kuhlman, D.P., Torrence, P.F. and Tieckelmann, H.
Precursors of the pyrimidine and thiazole rings of thiamine (148)1

Tomoda, J., see Kimura, K.
Tondeur-Montenez, T., see Dumont, J.E.
Tonegawa, S.
— and Hayashi, M.
The direction of in vitro genetic transcription on circular DNA (123)634
Tonino, G.J.M.
— and Rozijn, Th.H.
On the occurrence of histones in yeast (124)427
Toole, B.P.
— and Lowther, D.A.
Isolation of a dermatan sulphate–protein complex from bovine heart valves (101)364;
The organisation of the hexosamine-containing compounds in bovine skin (121)315
Toomey, R.E.
— and Wakil, S.J.
Studies on the mechanism of fatty acid synthesis. XV. Preparation and general properties of β-ketoacyl acyl carrier protein reductase from Escherichia coli (116)189
Topper, Y.J., see Lockwood, D.H.; see Turkington, R.W.
Torchinsky, Yu.M.
—, Livanova, N.B. and Pikhelgas, V.Ya.
The circular dichroism and anomalous rotatory dispersion of muscle phosphorylase b (110)619
Torii, K.
— and Bandurski, R.S.
Yeast sulfate-reducing system. III. An intermediate in the reduction of 3'-phosphoryl-5'-adenosinephosphosulfate to sulfite (136)286
Torii, S.
—, Bashey, R.I. and Nakao, K.
Acid mucopolysaccharide composition of human heart valves (101)285
Torrence, P.F., see Tomlinson, R.V.
Torres, M.T., see Koide, S.S.
Toschi, G., see Mangiantini, M.T.
Totsuka, T., see Hatano, S.
Toubal, W.T.
— and Tappel, A.L.
Damage to ATP by peroxidizing lipids (136)402
Tourtellotte, C.D., see Campo, R.D.
Toury, R., see Lévy, M.
Touster, O., see Horvat, A.; see Meikle, A.W.
Tove, S.B., see Wright, W.R.
Townsley, J.D.
— and Brodie, H.J.
Studies on the mechanism of estrogen biosynthesis. IV. Ovarian metabolism of estr-4-ene-3,17-dione (144)440
Track, N.S.
—, Jarrett, R.J. and Keen, H.
Studies on RNA nucleotides of mammalian islets of Langerhans (145)514
Traub, A., see Ginzburg-Teitz, Y.
Trávníček, M., see Říman, J.
Treadwell, C.R., see Hyun, S.A.
Trebst, A.
— and Pistorius, E.
ATP formation coupled to photosynthetic $NADP^+$ reduction with artificial electron donors (131)580
—, Pistorius, E. and Baltscheffsky, H.
p-Phenylenediamines as electron donors for photosynthetic pyridine nucleotide reduction in chromatophores from Rhodospirillum rubrum (143)257
—, see Bayer, E.
Tremaine, J.H., see Gerwing, J.
Trentalance, A., see Mangiantini, M.T.
Trewavas, A.J.
—, Johnston, I.R. and Crook, E.M.
The effects of some auxins on the levels of phosphate esters in Avena sativa coleoptile sections (136)301
Triebel, H.
— und Walsmann, P.
Die Bestimmung des Molekulargewichtes von Hirudin in der Ultrazentrifuge (120)137
—, see Zimmer, Ch.
Trijbels, F.
— and Vogels, G.D.
Degradation of allantoin by Pseudomonas acidovorans (113)292;
Allantoicase and ureidoglycolase in Pseudomonas and Penicillium species (118)387;
Allantoate and ureidoglycolate degradation by Pseudomonas aeruginosa (132)115
—, see Vogels, G.D.
Trikojus, V.M., see Dopheide, T.A.A.
Trnavská, Z.
—, Sitaj, S., Grmela, M. and Malinsky, J.
Certain intermediary metabolites and the formation of fibrils from collagen solutions (126)373
Trucco, R.E., see Ryan, L.C.
Truffa-Bachi, P.
— et Cohen, G.N.
La β-aspartokinase sensible à la lysine d'Escherichia coli. Purification et propriétés (113)531
—, Le Bras, G. and Cohen, G.N.
The threonine-sensitive aspartokinase and homoserine dehydrogenase activities of Escherichia coli. II. The effects of p-mercuribenzoic acid (128)440;
The threonine-sensitive homoserine dehydrogenase and aspartokinase activities of Escherichia coli. III. Inactivation at pH 9 (128)450
—, see Patte, J.C.
Trujillo, J.L., see Gan, J.C.
Trundle, D.S.
— and Mann, G.V.
Characterization and measurement of acid mucopolysaccharides in tissues (101)127
Trüper, H.G.
Tricarboxylic acid cycle and related enzymes in hydrogenomonas strain $H16G^+$ grown on various carbon sources (111)565
Truscoe, R.
— and Williams, V.
Effect of inhibitors on activity of ox-kidney urate oxidase (105)292
Try, K., see Eldjarn, L.; see Stokke, O.
Tsanev, R.
Direct spectrophotometric analysis of RNA fractionation by agar-gel electrophoresis (103)374
Tseytlin, P.I., see Gorin, A.I.
Tsugita, A.
—, Okada, Y. and Uehara, K.
Photosensitized inactivation of RNA's in the

presence of riboflavin (103)360
—, see Hirashima, A.; see Shimizu, A.
Tsuiki, S., see Okuyama, M.; see Sato, K.
Tsuji, T., see Kido, R.
Tsukada, K., see Nakashima, S.; see Suzue, G.
Tsurufuji, S.
— and Nakagawa, H.
Quantitative aspects of the formation and maturation of collagen in rat skin (140)142
— and Ogata, Y.
Biosynthesis of collagen in skin minces in relation to mechanism of formation of insoluble collagen (104)193
Tsushima, K., see Itoh, R.
Tsutsumi, Y., see Nakano, M.
Tsuzuki, H., see Morihara, K.
Tuček, S.
Synthesis of acetyl-CoA and acetylcholine from citrate and acetate in the nerve endings of mammalian brain (117)278
Tucker, R.G., see Haslam, E.A.
Tuena, M., see Peña, A.
Tumerman, L.A., see Freed, S.
Tuppy, H., see Griss, G.
Turchinsky, M.F., see Kochetkov, N.K.
Turkington, R.W.
—, Juergens, W.G. and Topper, Y.J.
Hormone-dependent synthesis of casein in vitro (111)573
—, Lockwood, D.H. and Topper, Y.J.
The induction of milk protein synthesis in post-mitotic mammary epithelial cells exposed to prolactin (148)475
— and Topper, Y.J.
Casein biosynthesis: Evidence for phosphorylation of precursor proteins (127)366
—, see Lockwood, D.H.
Türler, H., see Karkas, J.D.
Turner, G.L., see Bergersen, F.J.
Turner, M.D., see Garrido-Pinson, G.C.
Turnock, G.
— and Wild, D.G.
The effect of 5-methyltryptophan on the synthesis of protein and RNA by Escherichia coli (114)578;
Synthesis of RNA and protein during inhibition of Escherichia coli by analogues of acids (123)402
Turtle, J.R.
— and Kipnis, D.M.
The lipolytic action of human placental lactogen on isolated fat cells (144)583
Tyndall, R.L.
—, Jacobson, K.B. and Teeter, E.
Characterization of HeLa cell and viral RNA by oligonucleotide analysis (108)11
Tzagoloff, A., see MacLennan, D.H.

U

Ubuka, T.
—, Kodama, H. and Mizuhara, S.
Isolation of S-(carboxymethyl)cysteine from urine (141)266
Uchida, K.
—, Mommaerts, W.F.H.M. and Meretsky, D.
Myosin in association with preparations of sarcotubular vesicles from muscle (104)287
Uchida, R., see Hayshi, M.
Uchida, T.
— and Yoneda, M.
Evidence for the association of membrane with the site of toxin synthesis in Corynebacterium diphtheriae (145)210
—, see Takai, N.
Udaka, K.
— and Hayashi, H.
Molecular weight determination of a protease inhibitor from rabbit skin with healing inflammation (104)600
Ueda, K., see Hayashi, Y.
Uehara, K., see Tsugita, A.
Uejo, H., see Kimizuka, H.
Uematsu, H., see Suhadolnik, R.J.
Uenõ, Y.
—, Platel, A. et Fromageot, P.
Interaction entre pigments et acides nucléiques. II. Interaction in vitro entre la lutéoskyrine et l'acide désoxyribonucléique de thymus de veau (134)27
Uete, T.
Mode of action of glucocorticoids. II. Early effects of triamcinolone on amino acid incorporation into various tissues in vivo (121)386;
Mode of action of glucocorticoids. III. The inhibition of amino acid incorporation by thymus subcellular fractions in vitro following administration of triamcinolone (121)395
Uffink, A., see Vogels, G.D.
Uhr, M.L., see Morrison, J.F.
Uhrich, F., see Pasqualini, J.R.
Ui, M.
A role of phosphofructokinase in pH-dependent regulation of glycolysis (124)310
Ui, N., see Robbins, J.
Ukita, T., see Hayatsu, H.; see Kikugawa, K.; see Sekiya, T.; see Takeishi, K.; see Terao, T.; see Yoshida, M.
Ulbrich, O., see Berndt, J.
Ullrich, J.
— und Mannschreck, A.
Kinetik des 2'-protonenaustauschs am Thiaminpyrophosphat (115)46
—, Wittorf, J.H. and Gubler, C.J.
Molecular weight and coenzyme content of pyruvate decarboxylase from brewer's yeast (113)595
Ulmer-Schürnbrand, I., see Schramm, G.
Ulrich, F.
The activation of mitochondrial ATPase by calcium (105)460;
The inhibition of magnesium-activated mitochondrial ATPase by calcium (122)298
Ulrich, J., see Jeffrey, S.W.
Ulsamer, A.G.
— and Glenn, J.L.
The incorporation of ^{32}P into individual liver phosphatides of rats (125)525
Ulshöfer, H.W., see Baumann, W.J.
Umbreit, W.W., see Li, L.; see Moore, L.D.
Underwood, B., see Brown, F.
Unemoto, T.
—, Hayashi, M., Miyaki, K. and Hayashi, M.
Intracellular localization and properties of trimethylamine-N-oxide reductase in Vibrio parahaemolyticus (110)319;
Formation of trimethylamine from DL-carnitine by Serratia marcescens (121)220
—, see Hayashi, M.
Ungar-Waron, H.
—, Hurwitz, E., Jaton, J-C. and Sela, M.
Antibodies elicited with conjugates of nucleosides with synthetic polypeptides (138)513
—, Jaton, J-C. and Sela, M.
Action of papain on normal rabbit immunoglobulin M (140)542
— and Sela, M.
Pyridoxal-specific antibodies obtained with a synthetic pyridoxal–polypeptide conjugate (124)147
Unhjem, O., see Schultz-Haudt, S.D.
Uphaus, R.A.
—, Flaumenhaft, E. and Katz, J.J.
A living organism of unusual isotopic composition. Sequential and cumulative replacement of stable isotopes in Chlorella vulgaris (141)625
Urata, G., see Wada, O.
Urbaschek, B., see Thiele, O.W.
Urey, J.C.
— and Horowitz, N.H.
Effects of EDTA on tyrosinase and L-amino-acid oxidase induction in Neurospora crassa (132)300
Urgoiti, E., see Brady, R.O.
Urivetzky, M., see Wiener, S.L.
Ushakov, A.N., see Bergelson, L.D.
Utech, N.M., see Holden, J.T.
Utsumi, K.
—, Yamamoto, G. and Inaba, K.
Failure of Fe^{2+}-induced lipid peroxidation and swelling in the mitochondria isolated from ascites tumor cells (105)368
Utter, M.F., see Bernofsky, C.
Uziel, M.
— and Cohn, W.E.
Desalting of nucleotides by gel filtration (103)539

V

Vacchini, P., see Forlani, L.
Vaheri, A., see Maes, R.
Vahouny, G.V.
—, Katzen, R. and Entenman, C.
Myocardial metabolism. II. Role of nutritional state on palmitate and glucose oxidation by isolated perfused hearts (137)181
—, see Hyun, S.A.
Vaidya, N.R., see Braganca, B.M.; see Divekar, A.Y.
Vaidyanathan, C.S., see Madhusudanan Nair, P.
Vakhitova, E.A., see Stepanov, V.M.
Valadares, J.R.E.
The effects of pyridoxine deficiency on cardiac and brain phosphorylase in mice (136)296
Valenstein, E., see Wittenberg, B.A.
Valentini, L., see Calendi, E.
Vallejos, R.H.
— and Slater, E.C.
A soluble ATPase with high coupling activity (143)441
— and Stoppani, A.O.M.
Site-specific effects of steroids on mitochondrial metabolism (131)295
Vallotton, M., see Stason, W.B.
Valulis, B., see Ezekiel, D.H.
Van Alstyne, D., see Gerwing, J.
Van Boven-de Tyssonsk, E., see Szirmai, J.A.
Van Bruggen, E.F.J.
—, Borst, P., Ruttenberg, G.J.C.M., Gruber, M. and Kroon, A.M.
Circular mitochondrial DNA (119)437
—, see Borst, P.; see Mellema, J.E.
Van Buskirk, J.J.
— and Frisell, W.R.
Inhibition of formaldehyde of energy transfer and related processes in rat-liver mitochondria (143)292
Van Dalen, A.
—, Seijen, H.G. and Gruber, M.
Isolation and some properties of rabbit IgM immunoglobulin (147)421
Van Dam, A.F.
— and Ten Cate, G.
Isolation and some properties of bovine α-crystallin (121)183
—, see Harmsen, B.J.M.
Van Dam, K.
The burst in ATP synthesis observed on addition of ADP to mitochondria (128)337;
The inhibitory effect of uncouplers of oxidative phosphorylation on mitochondrial respiration (131)408
—, see Hilvers, A.G.
Vandebroek, G., see Picard, J.J.
Van Deenen, L.L.M., see Attwood, D.; see Bartels, C.T.; see Bonsen, P.P.M.; see De Haas, G.; see Demel, R.A.; see Elsbach, P.; see Haverkate, F.; see Houtsmuller, U.M.T.; see Kinsky, S.C.; see Mulder, E.; see Op den Kamp, J.A.F.; see Proulx, P.R.; see Reman, F.C.; see Scherphof, G.L.; see Van den Bosch, H.; see Van Golde, L.M.G.; see Waite, M.
Van den Berg, J.W.O.; see Elsbach, P.; see Mulder, E.
Van den Bergh, S.G., see Charles, R.
Van den Bosch, H.
— and Van Deenen, L.L.M.
Chemical structure and biochemical significance of lysolecithins from rat liver (106)326
—, Van Golde, L.M.G., Eibl, H. and Van Deenen, L.L.M.
The acylation of 1-acyl-glycero-3-phosphorylcholines by rat liver microsomes (144)613
—, see Elsbach, P.
Vandenbussche, P.
— and Fiers, W.
The distribution of tetranucleotides present in the pancreatic ribonuclease digests of bacteriophage MS2 RNA and yeast RNA (114)182
Van den Driessche, T.
The role of the nucleus in the circadian rhythms of Acetabularia mediterranea (126)456
VandenHeuvel, W.J.A.
—, Patterson, J.L. and Braly, K.L.
Use of bis-trimethylsilylacetamide in the preparation of derivatives for the gas–liquid chromatography of certain adrenocortical steroids (144)691
Van den Muysenberg, J.A.C.M., see Christen, P.J.
Van den Schrieck, H.G., see De Nayer, Ph.
Van der Bent, E.M., see Kwa, H.G.
Van der Drift, C.
— and Vogels, G.D.
Activation and inactivation of allantoate amidohydrolase (139)162
—, see Vogels, G.D.
Van der Eb, A.J.
— and Van Kesteren, L.W.
Structure and molecular weight of the DNA of adenovirus type 5 (129)441
Van der Horst, C.J.G.
— and Grooten, H.J.G.
The occurrence of hypotaurine and other sulfur-containing amino acids in seminal plasma and spermatozoa of boar, bull and dog (117)495
Van der Meer, J.H.H.
— and Koningsberger, V.V.
Synthesis of bacteriophage ΦX174-neutralizing protein in a subcellular system obtained from spleen of ΦX174 immunized rats (103)136
Van der Tuin, J.C., see Goedheer, A.K.
Van der Veen, K.J., see Willebrands, A.F.
VanderWende, Chr.
An inhibitor of the glycogen synthetase of leukemic leukocytes found in leukemic plasma (148)561
Van Dorp, D.A.
—, Jouvenaz, G.H. and Struijk, C.B.

Van Dorp, D.A. (continued)
The biosynthesis of prostaglandin in pig eye iris (137)396
Vaněček, J., see Meloun, B.
Van Eyk, H.G.
Fragmentation of human globulin with papain (127)241
Van Fraechem, J., see Poortmans, J.R.
Van Gelder, B.F.
On cytochrome c oxidase. I. The extinction coefficients of cytochrome a and cytochrome a_3 (118)36
— and Muijsers, A.O.
On cytochrome c oxidase. II. The ratio of cytochrome a to cytochrome a_3 (118)47
— and Veldsema, A.
Different species of copper in ceruloplasmin (130)267
Van Golde, L.M.G.
— and Van Deenen, L.L.M.
The effect of dietary fat on the molecular species of lecithin from rat liver (125)496
—, see Van den Bosch, H.
Van Gool, A.
— and Laudelout, H.
The mechanism of nitrite oxidation by Nitrobacter winogradskyi (113)41;
Formate utilization by Nitrobacter winogradskyi (127)295
Van Harken, D.R., see Heimberg, M.
Van Iterson, W., see Op den Kamp, J.A.F.
Van Kesteren, L.W., see Van der Eb, A.J.
Van Kley, H., see Hofsten, B.V.
Van Lierop, J.H., see Thomas, J.B.
Vanneste, W.H.
Molecular proportion of the fixed cytochrome components of the respiratory chain of Keilin–Hartree particles and beef-heart mitochondria (113)175
Vänngård, T., see Malmström, B.G.
Van Os, G.A.J., see Harmsen, B.J.M.
Van Rossum, G.D.V.
Observations on respiratory pigments in slices of avian salt gland and rat liver. I. Effects of inhibitors and uncouplers (110)221;
Observations on respiratory pigments in slices of avian salt gland and rat liver. II. Evidence for reversal of electron transfer (110)237;
Simultaneous measurements of $^{24}Na^+$ efflux and pyridine nucleotides in slices of rat liver (122)312;
Effects of K^+, ouabain and valinomycin on the efflux of $^{24}Na^+$ and pyridine nucleotides of rat-liver slices (122)323;
Movements of Na^+ and K^+ in slices of herring-gull salt gland (126)338
Van Rotterdam, C., see Jansz, H.S.
Van Rotterdam, J., see Pouwels, P.H.
Van Steveninck, J.
The influence of nickelous ions on carbohydrate transport in yeast cells (126)154
Vantrappen, G.R., see Deckx, R.F.
Van Voorst, J.D.W.
—, Veeger, C. and DerVartanian, D.V.
Studies on succinate dehydrogenase. II. Electron-spin resonance measurements at liquid-nitrogen temperature (146)367
Vanyushin, B.F.
— and Dunn, D.B.
The dissociation of 80-S ribosomes with polyvinyl sulphate (134)91
Van Zwieten, P.A., see Lahrtz, H.G.
Varadi, D.P.
—, Cifonelli, J.A. and Dorfman, A.
The acid mucopolysaccharides in normal urine (141)103
Varandani, P.T.
Mode of action of glutathione–insulin transhydrogenase. Studies on the precipitate produced by its action on insulin (118)198;
A convenient preparation of reduced and S-sulfonated A and B chains of insulin (127)246;
Acceleration of regeneration of insulin activity from its inactive reduced A and B chains by pancreatic glutathione–insulin transhydrogenase (132)10
— and Tomizawa, H.H.
Purification and properties of pancreatic glutathione–insulin transhydrogenase (113)498
Vargas, F.F.
Determination of the permeability to water of the membrane of axons from Dosidicus gigas (109)309
Varma, T.N.R.
—, Erdody, P. and Murray, T.K.
Utilization of anhydrovitamin A by the vitamin A-deficient rat (104)71
Varner, J.E., see Ram Chandra, G.
Varshavsky, Y.M., see Maslova, R.N.
Vasilescu, D.
—, Fiancette, C. et Mesnard, G.
Etude diélectrique de la dénaturation thermique de solutions de DNA dans l'eau lourde (129)417
Vasington, F.D.
Accumulation of Ca^{2+} and Sr^{2+} by rat-liver mitochondria: Preferential loss of the ATP-dependent mechanism for Sr^{2+} accumulation (113)413
Vassar, P.S.
—, Seaman, G.V.F., Dunn, W.L. and Kanke, L.
Electrokinetic properties of nuclear surfaces. A comparison of nuclei from normal and regenerating rat liver (135)218
Vaughan, B.E., see Cummins, J.T.
Vaughan, M., see Mosinger, B.
Vaver, V.A., see Bergelson, L.D.
Vavrečka, M.
—, Poledne, R. and Petrásek, R.
Kinetics of [1-^{14}C]palmitate uptake and incorporation into lipid fractions of liver slices (125)176
Vazquez, D.
Method for the preparation of bacterial 50-S ribosome subunits (108)313;
Binding of chloramphenicol to ribosomes. The effect of a number of antibiotics (114)277;
Antibiotics affecting chloramphenicol uptake by bacteria. Their effect on amino acid incorporation in a cell-free system (114)289
— and Monro, R.E.
Effects of some inhibitors of protein synthesis on the binding of aminoacyl-tRNA to ribosomal subunits (142)155
Vecchini, P., see Chiancone, E.
Vecchio, G., see Robbins, J.
Veeger, C., see De Kok, A.; see DerVartanian, D.V.; see Van Voorst, J.D.W.

Veerabhadrappa, P.S., see Brosemer, R.W.
Vega, A., see Municio, A.M.
Végh, M., see Bihari-Varga, M.
Velani, S., see Tentori, L.
Veldsema, A., see Van Gelder, B.F.
Veldstra, H., see Schilperoort, R.A.
Velins, A., see Lemberg, R.
Véliz, M., see Bascur, L.
Venkatachalam, C.M., see Ramachandran, G.N.
Venkitasubramanian, T.A., see Murty, H.S.R.
Venkov, P.V.
— and Hadjiolov, A.A.
Characterization of rat liver nuclear RNA fractions obtained by thermal phenol fractionation (142)276
—, see Hadjiolov, A.A.
Venkstern, T.V., see Bayev, A.A.
Ventruto, V., see Baglioni, C.
Vepřek, L., see Řiman, J.
Verhoef, N.J.
—, Reinecke, C.J. and Bosch, L.
Initiation of plant viral RNA-directed polypeptide synthesis with N-acetylphenylalanyl-tRNA (149)305
Verhofstad, F., see Kwa, H.G.
Verly, W.G.
—, Barbason, H., Dusart, J. and Petitpas-Dewandre, A.
A comparative study of the action of ethyl methane sulfonate and HNO_2 on the mutation to streptomycin resistance of Escherichia coli K12 (145)752
Vernay, J.L., see Bourrillon, R.
Verney, E., see Sidransky, H.; see Staehelin, T.
Vernon, L.P.
— and Garcia, A.F.
Pigment–protein complexes derived from Rhodospirillum rubrum chromatophores by enzymatic digestion (143)144
—, see Anderson, J.M.; see Swensen, A.D.
Verpoorte, J.A.
— and Kay, C.M.
Optical rotatory dispersion and spectrophotometric studies on fetuin in solutions containing detergent and denaturing reagents (126)551
Vesco, C.
— and Giuditta, A.
Tetrazolium reductase activity of the enzymatic systems of oxidation of reduced nicotinamide nucleotides in mammalian brain (113)197;
Pattern of RNA synthesis in rabbit brain (142)385
Veselý, J., see Čihák, A.
Vester, F.
Amino acid pattern and malignant growth (104)98
Vesterberg, K., see Vesterberg, O.
Vesterberg, O.
—, Wadström, T., Vesterberg, K., Svensson, H. and Malmgren, B.
Studies on extracellular proteins from Staphylococcus aureus. I. Separation and characterization of enzymes and toxins by isoelectric focusing (133)435
Vidaver, A.K.
— and Brock, T.D.
Purification and properties of bacteriophage receptor material from Streptococcus faecium (121)298
Vignais, P.M., see Vignais, P.V.
Vignais, P.V.
—, Duée, E.D., Vignais, P.M. and Huet, J.
Effects of atractyligenin and its structural analogues on oxidative phosphorylation and on the translocation of adenine nucleotides in mitochondria (118)465
—, see Duée, E.D.
Vilallonga, F.
—, Altschul, R. and Fernández, M.S.
Lipid–protein interaction at the air–water interface (135)406;
Free energy of mixing of phospholipids and cholesterol at the air–water interface (135)557
Villalobos, Jr., J.G.
—, Steele, W.J. and Busch, H.
Ribonuclease activity of isolated nucleoli of livers of thioacetamide-treated rats (103)195
Villanueva, J.R., see García Mendoza, C.; see Novaes, M.
Villanueva, V.R.
—, Barbier, M., Gros, C. et Lederer, E.
Sur l'"éthionine" produite par Escherichia coli B (130)329
Villarejo, M.
— and Westley, J.
Sulfur metabolism of Bacillus subtilis (117)209
Villar-Palasi, C., see Goldberg, N.D.
Villavicencio, M., see Guerra, R.M.
Villee, C.A., see Channing, C.P.; see Weinhold, P.A.
Villegas, L.
Changes in volume and turgor pressure in Valonia cells (136)590
Villoutreix, J., see Nusbaum-Cassuto, E.
Vincent, J.F.
Improved vertical gel electrophoresis (104)284
Vincent, W.F.
— and Cameron, J.A.
Kinetics of the enzymic dissociation of bacterial endotoxin (101)220
Vincze, S., see Székely, M.
Vinograd, J., see Bruner, R.; see Fessler, J.H.
Vinogradov, S.N.
— and Harbury, H.A.
Amino acid composition of chicken heart cytochrome c (115)494
Vinson, L.J., see Bulgin, J.J.
Vire, V.R., see Moog, F.
Virupaksha, T.K.
— and Shrift, A.
Biochemical differences between selenium accumulator and non-accumulator Astragalus species (107)69
—, Shrift, A. and Tarver, H.
Metabolism of selenomethionine in selenium accumulator and non-accumulator Astragalus species (130)45
Viscidi, E.
—, Consiglio, E. and Roche, J.
Binding of thyroid hormones by lysozyme: Fluorescence quenching studies (121)424
Vishno, F.E., see Spencer, R.P.
Visser, D.W., see Roy-Burman, P.; see Smith, D.A.
Vitagliano, V., see Constantino, L.
Vitale-Neugebauer, A., see Giuditta, A.

Vitális, S., see Szabó, G.
Vittur, F., see Romeo, D.
Vivaldi, G., see Tentori, L.
Vivian, S., see Labella, F.S.
Vladimirzeva, E.A., see Bukrinskaya, A.G.
Vodrážka, Z., see Hrkal, Z.
Voelter, W., see Bayer, E.
Vogel, H.J., see Shimura, Y.
Vogels, G.D.
Reversible activation of allantoate amidohydrolase by acid pretreatment and other properties of the enzyme (113)277
—, Trijbels, F. and Uffink, A.
Allantoinases from bacterial, plant and animal sources. I. Purification and enzymic properties (122)482
— and Van der Drift, C.
Allantoinases from bacterial, plant and animal sources. II. Effect of bivalent cations and reducing substances on the enzymic activity (122)497
—, see Trijbels, F.; see Van der Drift, C.
Volcani, B.E., see Kates, M.
Volkenstein, M.V.
The genetic coding of protein structure (119)421
— and Goldstein, B.N.
A new method for solving the problems of the stationary kinetics of enzymological reactions (115)471;
Allosteric enzyme models and their analysis by the theory of graphs (115)478
—, see Bolotina, I.A.
Volkert, N.E., see Hurley, L.S.
Voll, M.J.
— and Goodgal, S.H.
The stability of recombinant DNA formed during transformation of Hemophilus influenzae (119)65
Volland, C., see Labbe, P.
Von Brand, T., see Weinbach, E.C.
Von Chak, D., see von Seidel, D.T.
Von der Decken, A., see Saddi, R.
Von Holt, C.
Methylenecyclopropaneacetic acid, a metabolite of hypoglycin (125)12
—, Von Holt, M. and Böhm, H.
Metabolic effects of hypoglycin and methylenecyclopropaneacetic acid (125)1
Von Holt, M., see Von Holt, C.
Von Jagow, R.
— and Kiese, M.
Isolation of N-hydroxy-p-aminopropiophenone from the urine of rabbits injected with p-aminopropiophenone (136)168
Von Korff, R.W., see Bauer, C.
Votaw, R.G., see Mieyal, J.J.
Vozari Hampe, M.M.
— and Gonzalez, N.S.
Uridine diphosphate rhamnose from Pisum sativum seeds (148)566
Vredenberg, W.J.
— and Amesz, J.
Absorption bands of bacteriochlorophyll types in purple bacteria and their response to illumination (126)244
— and Slooten, L.
Chlorophyll a fluorescence and photochemical activities of chloroplast fragments (143)583
—, see Amesz, J.

W

Wada, F.
—, Hirato, K. and Sakamoto, Y.
Relation of cholesterol synthesis and NADPH oxidation by microsomal electron transport system involving P-450 (143)273
Wada, M., see Sugano, M.
Wada, O.
—, Sassa, S., Takaku, F., Yano, Y., Urata, G. and Nakao, K.
Different responses of the hepatic and erythropoietic δ-aminolevulinic acid synthetase of mice (148)585
Wadström, T.
Studies on extracellular proteins from Staphylococcus aureus. II. Separation of deoxyribonucleases by isoelectric focusing. Purification and properties of the enzymes (147)441
—, see Vesterberg, O.
Waehneldt, T.V.
— and Fox, S.W.
Phosphorylation of nucleosides with polyphosphoric acid (134)1
Wagle, S.R.
Studies on biosynthesis and catabolism of insulin (107)524
— and Nelson, P.
Studies on activities of gluconeogenic enzymes in sheep liver (121)190
Wagner, Jr., H., see Glauser, S.C.
Wahl, P.
— et Lami, H.
Etude de déclin de la fluorescence du lysozyme-1-diméthylaminonaphthalène-5-sulfonyl (133)233
Wainer, A.
Production of cysteinesulfinic acid from cysteine in vitro (104)405;
Mitochondrial oxidation of cysteine (141)466
Wainio, W.W., see Kirschbaum, J.
Waite, M.
— and Van Deenen, L.L.M.
Hydrolysis of phospholipids and glycerides by rat liver preparations (137)498
—, see Scherphof, G.L.
Wakabayashi, K.
—, Tanaka, M., Yumoto, S. and Shimazono, N.
Unsaturated fatty acid synthesis in respiratory-deficient yeast (110)513
—, see Oshima, H.
Wake, R.G., see Armstrong, C.E.; see Mackinlay, A.G.
Waki, A., see Akaboshi, M.
Wakil, S.J., see Toomey, R.E.
Waksman, S.A.
A statement concerning the use of names for antibiotics (121)8
Waldvogel, M., see Froesch, E.R.
Wales, R.G.
— and Whittingham, D.G.
A comparison of the uptake and utilization of lactate and pyruvate by one- and two-cell mouse embryos (148)703
Walker, D.A.
— and Hill, R.
The relation of oxygen evolution to carbon assimilation with isolated chloroplasts (131)330
—, see Baldry, C.W.; see Chapman, D.; see Cockburn, W.
Walker, I.O.
The effect of proflavine on helix–coil transitions in sodium deoxyribonucleate and deoxyribonucleohistone (109)585
—, see Gittelson, B.L.; see Leonard, K.R.; see Miall, S.H.
Walker, J.B.
— and Walker, M.S.
Streptomycin biosynthesis. Enzymatic synthesis of O-phosphorylstreptidine from streptidine and ATP (148)335
—, see Walker, M.S.
Walker, M.S.
— and Walker, J.B.
Streptomycin biosynthesis: Conversion of myo-inositol to o-phosphorylstreptidine (136)272
—, see Walker, J.B.
Wall, J.S., see Beckwith, A.C.
Wallace, A., see Bogin, E.
Wallace, H.
— and Birnstiel, M.L.
Ribosomal cistrons and the nucleolar organizer (114)296
Wallach, D.F.H., see Zahler, P.H.
Wallén, P., see Iwanaga, S.
Waller, J.-P.
—, Erdös, T., Lemoine, F., Guttmann, S. and Sandrin, E.
Inhibition of protein synthesis by aminoacyl 3'(2')-adenosine (119)566
Wallis, M.
A C-terminal sequence from ox growth hormone (115)423
Walop, J.N.
— and De Lange, N.
Dependence of the biochemical aromatization of C_{19} steroids of the configuration at carbon atoms 8, 9 and 10 (130)249
Walsh, D.A.
— and Sallach, H.J.
D-3-Phosphoglycerate dehydrogenase. Further studies on the enzyme isolated from chicken liver (146)26
Walsmann, P., see Triebel, H.
Walter, G., see Hecker, E.
Walter, H.
— and Selby, F.W.
Counter-current distribution of red blood cells of slightly different ages (112)146;
Effects of DEAE-dextran on the partition of red blood cells in aqueous dextran–polyethylene glycol two-phase systems (148)517
—, Selby, F.W. and Garza, R.
On the counter-current distribution of red blood cells: An addendum (136)148

Walter, H. (continued)
—, Winge, R. and Selby, F.W.
Counter-current distribution of red blood cells of different ages and from different species (109)293
Walter, M., see Bodmann, O.
Walter, M.J.
Das Redoxpotential der Glukoseoxydase aus Aspergillus niger (Nigerin) in Abhängigkeit vom pH (128)504
Walters, C.L.
—, Casselden, R.J. and Taylor, A.Mc.M.
Nitrite metabolism by skeletal muscle mitochondria in relation to haem pigments (143)310
Walton, P.L.
The hydrolysis of α-N-acetylglycyl-L-lysine methyl ester by urokinase (132)104
Walz, Jr., F.G.
— and Chan, P.C.
Effects of cysteine and potassium on the ATP-dependent retention of Na^+ by erythrocyte membranes (135)885
Wang, D.
— and Mancini, D.
RNA-polyphosphate in plants (129)231
Wang, I.S.Y., see Wang, K.-T.
Wang, J.H.
— and Matheson, A.T.
The interaction of Escherichia coli ribosomes with p-chloromercuribenzoate (138)296
Wang, K.-T.
— and Wang, I.S.Y.
Polyamide-layer chromatography of nucleic acid bases and nucleosides (142)280
—, see Woods, K.R.
Wang, M., see Watkins, J.
Wang, T.-Y.
Metabolically active basic proteins isolated from the nuclear soluble protein fraction (114)620
Ward, P.F.V.
— and Huskisson, N.S.
Small scale preparation of [1-^{14}C]fluoroacetic acid (115)515
Ward, V.L., see Bennett, Jr., L.L.
Waring, M.J.
Structural requirements for the binding of ethidium to nucleic acids (114)234
Warnaar, S.O., see Schilperoort, R.A.
Warner, A.H.
— and Finamore, F.J.
Isolation, purification and characterization of P^1,P^3-diguanosine 5'-triphosphate from brine shrimp eggs (108)525
Warner, J.R.
— and Pene, M.G.
Binding of soluble proteins to HeLa cell ribosomes (129)359
Warren, J.C.
— and Barber, K.L.
Cyclic variation in RNA synthesis potential in the uterus of the golden hamster (138)421
—, see Cheatum, S.G.
Warth, A.D.
Composition of mucopeptide from the spores of Bacillus coagulans (101)315
Waskell, L.A.
—, Sastry, K.S. and Gordon, M.P.
Studies on the photosensitized breakdown of guanosine by methylene blue (129)49
Watanabe, Y., see Ono, Y.
Watari, H.
—, Groudinsky, O. and Labeyrie, F.
Electron spin resonance of cytochrome b_2 and of the cytochrome b_2 core (131)592
—, Hwang, K.J., Ashida, K. and Kinoshita, K.
Semiquinone formation of D-amino-acid oxidase by irradiation (128)256
—, Hwang, K.J., Kimura, K. and Murase, K.
Electron spin resonance studies of ferrihaemoglobin M_{Osaka} (120)131
—, Nakazawa, T. and Yamano, T.
Studies on mechanism of inactivation of catechol 1,2-oxygenase by electron spin resonance (146)409
—, see Hayashi, A.
Watkins, J.
—, Tee, D.E.H., Wang, M. and Tarlow, O.
Isolation and characterisation of mouse transferrins (127)66
Watkins, J.C., see Papahadjopoulos, D.
Watson, J.D.
— and Ralph, R.K.
DNA-associated RNA from sarcoma 180 cells (138)89
Watson, J.G., see Chaykin, S.
Watson, W.C., see Murray, E.S.
Watters, Jr., J.A., see Stouffer, J.E.
Wattiaux, R., see Wattiaux-De Coninck, S.
Wattiaux-De Coninck, S.
—, Rutgeers, M-J. and Wattiaux, R.
Lysosomes in rat-kidney tissue (105)446
Watts, R.L.
— and Mathias, A.P.
The use of bentonite in the isolation of plant polyribosomes (145)828
Wawra, H., see Bielig, H.J.
Waxman, H.S.
—, Freedman, M.I. and Rabinovitz, M.
Studies with ^{59}Fe-labeled hemin on the control of polyribosome formation in rabbit reticulocytes (145)353
— and Rabinovitz, M.
Control of reticulocyte polyribosome content and hemoglobin synthesis by heme (129)369
Way, J.L.
—, Feitknecht, U.F., Corder, C.N. and Miranda, P.M.
Isolation and characterization of a metabolite 1,1'-trimethylene bis(4-aldoximinopyridinium) dibromide (121)432
Webb, E.C., see Blakeley, R.L.
Webb, G.D.
Affinity of benzoquinonium and ambenonium derivatives for the acetylcholine receptor, tested on the electroplax, and for acetylcholinesterase in solution (102)172
Webb, T.E.
Polyribosome breakdown in rat liver following administration of 8-azaguanine (138)307
Weber, A.
—, Herz, R. and Reiss, I.
The nature of the cardiac relaxing factor (131)188
Weber, H.H., see Seidel, D.T.
Weber, T., see Simons, K.
Webley, D.M., see Greaves, M.P.
Webster, C.R., see Irwin, R.J.

Wedding, R.T., see Palmer, J.M.
Weed, R.I., see Rega, A.F.
Weener, J.H.M., see Hilvers, A.G.
Weetall, H.H.
— and Weliky, N.
Coupling of biologically active substances to insoluble polymers: Antibody on cellulose (107)150
Wegener, W.S.
—, Furmanski, Ph. and Ajl, S.J.
Selection of mutants constitutive for several glyoxylate-condensing enzymes during growth on valeric acid (144)34
Wegrzynowicz, Z., see Budzyński, A.Z.
Wei, H.C., see Yang, C.C.
Weida, B.
— and Gill, S.J.
Pressure effect on DNA transition (112)179
Weil, J.H., see Ebel, J-P.
Weimer, H.E., see Krotoski, H.E.
Weinbach, E.C.
— and Von Brand, T.
Formation, isolation and composition of dense granules from mitochondria (148)256
Weinbaum, G.
— and Markman, R.
A rapid technique for distinguishing enzymatically active proteins in the cell "envelope" of Escherichia coli B (124)207
Weinblum, D.
— and Johns, H.E.
Isolation and properties of isomeric thymine dimers (114)450
Weiner, I.M., see Lack, L.
Weinhold, P.A.
— and Villee, C.A.
Phospholipid metabolism in liver and lung of rats during development (106)540
Weinstein, I.B.
—, Carchman, R., Marner, E. and Hirschberg, E.
Miracil D: Effects on nucleic acid synthesis, protein synthesis, and enzyme induction in Escherichia coli (142)440
—, see Friedman, S.M.
Weintraub, M., see Ragetli, H.W.J.
Weisburger, E.K., see Grantham, P.H.
Weisburger, J.H., see Grantham, P.H.
Weisfeld, G.E., see Cummins, J.E.
Weisman, R.A.
— and Korn, E.D.
Uptake of fatty acids by Acanthamoeba (116)229
—, see Korn, E.D.
Weiss, J.J.
— and Wheeler, C.M.
Some studies on γ-irradiated DNA as primer in RNA synthesis (145)68
—, see Robinson, M.G.
Weiss, L., see Baserga, R.
Weiss, M., see Lapidot, Y.
Weissbach, A., see Lisio, A.L.
Weissman, J., see Malamed, S.
Weissmann, B.
— and Friederici, D.
Occurrence of a mammalian α-N-acetyl-D-galactosaminidase (117)498
Weissmann, G., see Sessa, G.
Weitzman, P.D.J.
Standard reduction potential and free energy change of disulphide bonds in proteins (107)146;
Regulation of citrate synthase activity in Escherichia coli (128)213;
Allosteric fine control of citrate synthase in Escherichia coli (139)526
Weksler, M.E.
— and Gelboin, H.V.
Carbon tetrachloride-induced loss of microsomal mRNA activity (145)184
Weliky, N., see Weetall, H.H.
Weller, D.L.
— and Morgan, R.S.
Extraction of high molecular weight complexes of protein from 50-S ribosomes (149)553
Weller, P.K., see Pollard, E.C.
Wells, W.W., see Takeuchi, N.
Welsh, J.D., see Semenza, G.
Wenger, T.J., see Stouffer, J.E.
Wengert, Jr., P.A., see Campo, R.D.
Werbin, H.
—, Ewald, W. and Chaikoff, I.L.
Simultaneous isomerization of soluble and suspended pregn-5-ene-3,20-dione by pregn-5-ene-3,20-dione isomerase (107)596;
Synthesis of 17α-hydroxypregn-5-ene-3,20-dione and other Δ^5-3-ketosteroid isomerase substrates (130)556
—, see Ewald, W.
Wérenne, J.
—, Grosjean, H. and Chantrenne, H.
Effect of proflavine on the binding of isoleucine to tRNA (129)585
Werries, E., see Bhargava, A.S.
Weser, E.
—, Friedman, M. and Sleisenger, M.H.
Metabolism of uniformly labeled [^{14}C]maltotriose in the rat (136)170
Weser, U.
Inhibition of adrenaline action on liver dephospho-phosphorylase by borate (121)413
Wessels, J.S.C.
Mechanism of the reduction of organic nitro compounds by chloroplasts (109)357;
Reconstitution by plastocyanin of the NADP$^+$-photoreducing activity in digitonin fragments of spinach chloroplasts (109)614;
Isolation of a chloroplast fragment fraction with NADP$^+$-photoreducing activity dependent on plastocyanin and independent of cytochrome f (126)581
—, see Hertogs, M.
Wester, P.O.
Concentration of 17 elements in subcellular fractions of beef heart tissue determined by neutron activation analysis (109)268
Westerfeld, W.W., see Tarentino, A.L.
Westerman, M.P., see Takeuchi, N.
Westermark, G., see Nyman, P.O.
Westgarth, D.R., see Moore, J.H.
Westley, J., see Villarejo, M.
Westphal, U.
— and DeVenuto, F.
Steroid–protein interactions. XI. Electrophoretic characterization of corticosteroid binding proteins in serum of rat, man and other species (115)187
Wevers, W.F.
—, Baguley, B.C. and Ralph, R.K.

Wevers, W.F. (continued)
Comparison of tRNA and aminoacyl-RNA ligases from calf liver and spleen (123)503
Whanger, P.D.
— and Matrone, G.
Effect of dietary sulfur upon the production and absorption of lactate in sheep (124)273;
Metabolism of lactic, succinic and acrylic acids by rumen microorganisms from sheep fed sulfur-adequate and sulfur-deficient diets (136)27
Wheat, R.W.
The isolation and characterization of glucosamine and muramic acid from the cell-wall mucopeptide of the Gram-negative bacterium, Chromobacterium violaceum (121)170
—, see Raff, R.A.
Wheeler, C.M., see Robinson, M.G.; see Weiss, J.J.
Wheeler, K.P.
—, Inui, Y., Hollenberg, P.F., Eavenson, E. and Christensen, H.N.
Relation of amino acid transport to Na^+ concentration (109)620
Whelan, D.J., see Johns, R.B.
Whigham, W.R., see Prager, M.D.
White, B.N.
—, Shetlar, M.R., Shurley, H.M. and Schilling, J.A.
Incorporation of [1-^{14}C]glucosamine into mucopolysaccharides of rat connective tissue (101)97;
Incorporation of D-[1-^{14}C]galactosamine into serum proteins and tissues of the rat (101)259
White, C.W., see Herrmann, R.L.
White, D.C., see Sinclair, P.
White, Jr., H.B.
— and Powell, S.S.
Fatty acid distribution in mycelial lipid of Choanephora cucurbitarum (116)389
—, see Bell, Jr., O.E.; see Cain, C.E.
White, H.L.
— and White, J.R.
Interaction of streptonigrin with DNA in vitro (123)648
White, J.R., see White, H.L.
Whitehead, P.H.
— and Sammons, H.G.
A simple technique for the isolation of orosomucoid from normal and pathological sera (124)209
Whitehouse, M.W., see Dean, P.D.G.
Whiteley, A.H., see Ozaki, H.; see Piatigorsky, J.
Whitfeld, P.R.
Application of the periodate method for the analysis of nucleotide sequence to tobacco mosaic virus RNA (108)202
Whittaker, P.A.
— and Redfearn, E.R.
Potentiometric measurement of the reduction of ferricyanide by succinate in a heart-muscle preparation (131)234
—, see Redfearn, E.R.
Whittam, R., see Wiley, J.S.
Whitten, B.K., see Klain, G.J.
Whittingham, C.P., see Miflin, B.J.; see Thompson, C.M.
Whittingham, D.G., see Wales, R.G.
Whittington, A., see Coleman, R.L.
Whittle, E.D.
Effect of thymidine on DNA synthesis and cytidine metabolism in rat-thymus cells (114)44;
Prevention by high concentrations of cytidine of inhibition by thymidine of DNA synthesis in rat-thymus cells (119)410
Whittle, K.J., see Dunphy, P.J.
Wiame, J.M., see Grenson, M.; see Ramos, F.; see Stalon, V.
Wiaux, A.L., see Briquet, M.V.
Wick, A.N., see Metzger, R.P.
Wide, L.
— and Porath, J.
Radioimmunoassay of proteins with the use of Sephadex-coupled antibodies (130)257
Widnell, C.C.
— and Tata, J.R.
Studies on the stimulation by ammonium sulphate of the DNA-dependent RNA polymerase of isolated rat liver nuclei (123)478
—, see Hamilton, T.H.
Widuczynski, I.
— and Stoppani, A.O.M.
Action of cycloheximide on amino acid metabolism in Saccharomyces elipsoideus (104)413
Wiebers, J.L.
— and Garner, H.R.
Interrelationships of sulfur amino acids in the pool and cellular protein of Neurospora crassa (117)403
Wiener, H., see Wolman, M.
Wiener, S.L.
—, Mass, M., Urivetzky, M. and Meilman, E.
Biosynthesis of procollagen in rabbit sponge capsular issue (133)114
Wierzbowska, B., see Schmidt, M.
Wiggins, P.M.
A kinetic study of the state of potassium in kidney tissue (109)454;
Efflux of sodium from anaerobic kidney slices (135)894
Wilchek, M.
—, Sarid, S. and Patchornik, A.
Use of sodium in liquid ammonia for cleavage of N-proline peptides (104)616
Wilcox, H.G.
—, Fried, M. and Heimberg, M.
Lysine incorporation into serum-lipoprotein by the isolated perfused rat liver (106)598
Wilczok, T., see Lubas, B.
Wild, D.G., see Turnock, G.
Wild, T.F., see Brown, F.
Wiley, J.S.
Effect of ouabain on deoxynucleoside metabolism in hereditary spherocytic human erythrocytes (135)1071
— and Whittam, R.
The products of deoxynucleoside metabolism in human erythrocytes (115)233
Wilken, D.R., see Schanbacher, F.
Wilkinson, J.F., see Sutherland, I.W.
Wilkinson, S.G., see Roberts, N.A.
Willebrands, A.F.
— and Van der Veen, K.J.
The metabolism of elaidic acid in the perfused rat heart (116)583

Williams, A., see Ifft, J.B.
Williams, D.L., see Moore, J.H.
Williams, E.J., see Bradley, J.
Williams, F.R.
Fractionation and some properties of the ribosomal proteins in Escherichia coli ribosomes (147)427
Williams, G.R., see Davis, K.A.; see Wlodawer, P.
Williams, H.E.
α-Glucosidase activity in human leucocytes (124)34
—, see Howard, B.
Williams, J.F., see Prokhovnik, I.G.
Williams, M.A.
— McIntosh, D.J., Hincenbergs, I. and Tamai, K.T.
Comparative effects of pyridoxine, riboflavin and thiamine on linoleate utilization in rats (137)388
—, Tamai, K.T. and McIntosh, D.J.
Effects of fasting on liver lipids in rats fed a purified diet (137)186
—, see Gregory, D.W.
Williams, M.K., see Lowy, B.A.
Williams, M.L.
Water content and metabolic activity of mitochondria from fetal rat liver (118)221
Williams, N., see Clouet, D.H.
Williams, N.L., see Furlong, N.B.
Williams, P.A.
— and Peacocke, A.R.
The physical properties of a glycoprotein from bovine cortical bone (bone sialoprotein) (101)327
Williams, R.J.H.
—, Britton, G. and Goodwin, T.W.
A possible mechanism for the biosynthesis of Eschscholtzxanthin (124)200
Williams, R.J.P., see Das, P.K.
Williams, R.P., see Mukherjee, P.P.
Williams, V., see Truscoe, R.
Williams, V.R.
— and Hiroms, J.M.
Reversibility of the "irreversible" histidine ammonia-lyase reaction (139)214
— and Libano, W.Y.
Evidence for the participation of a sulfhydryl group in the β-methylaspartase reaction (118)144
—, see Winkler, M.F.
Willis, D.P., see Furlong, N.B.
Willis, J.S.
Sodium dependence and ouabain sensitivity of α-oxoglutarate accumulation in kidney-cortex slices (102)609
Willumsen, L.
Hydrogen–deuterium exchange in heavy meromyosin (126)382
Wilson, B.M., see Neuberger, A.
Wilson, D.F.
Azide inhibition of mitochondrial electron transport. II. Spectral changes induced by azude (131)431
— and Chance, B.
Azide inhibition of mitochondrial electron transport. I. The aerobic steady state of succinate oxidation (131)421
— and Gilmour, M.V.
The low-temperature spectral properties of mammalian cytochrome oxidase. I. The enzyme in intact rat-liver mitochondria (143)52
— and King, T.E.
Reconstruction of respiratory-chain enzyme systems. XVI. The effect of alkali on the succinate oxidase system (131)265
—, see Gilmour, M.V.
Wilson, J.B., see Dobbs, Jr., N.B.
Wilson, J.E.
— and Hager, L.P.
Modification of the Cary Model 14 recording spectrophotometer for low temperature spectroscopy (102)317
Wilson, P.W., see Shethna, Y.I.
Wilson, R.G.
— and Bader, J.P.
Viral RNA polymerase: Chick embryo cells infected with vesicular stomatitis virus or Rous-associated virus (103)549
Wilson, T.H., see Winkler, H.H.
Wilson, Jr., V.W.
— and Rafelson, Jr., M.E.
Studies on the neuraminidases of influenza virus. III. Stimulation of activity by bivalent cations (146)160
Wimpenny, J.W.T.
— and Cole, J.A.
The regulation of metabolism in facultative bacteria. III. The effect of nitrate (148)233
—, see Cole, H.A.; see Cole, J.A.; see Gray, C.T.
Winder, F.G.
— and Coughlan, M.P.
Breakdown of DNA stimulated by nucleoside di- and triphosphates in cell-free extracts of Mycobacterium smegmatis (134)215
Winfield, M.E., see King, N.K.
Winge, R., see Walter, H.
Winicov, I., see Litwack, G.
Winkelman, J.W.
Binding of dyes to polycations. II. Fluorescence studies on the interaction of tetraphenylporphinesulfonate with proteins (140)189;
Binding of dyes to polycations. III. Characterization of histone fractions by their interaction with anionic dyes (147)577
— and Bradley, D.F.
Binding of dyes to polycations. I. Biebrich scarlet and histone interaction parameters (126)536
Winkler, H.H.
A hexose-phosphate transport system in Escherichia coli (117)231
— and Wilson, T.H.
Inhibition of β-galactoside transport by substrates of the glucose transport system in Escherichia coli (135)1030
Winkler, M.F.
— and Williams, V.R.
New substrates for β-methylaspartase (146)287
Winkler, M.H.
Fluorescence, depolarization. A study of the influence of varying excitation wavelength and solution concentration (102)459
—, Goldman, M.B. and Sweeney, E.A.
Fluorescence depolarization. II. The intermolecular relationships of the constituent fragments of γ-globulin (112)559
Winnick, T., see Yukioka, M.

Wins, P.
— and Schoffeniels, E.
Studies on red-cell ghost ATPase systems: Properties of a (Mg^{2+}–Ca^{2+})-dependent ATPase (120)341;
A "latent" dinitrophenol-stimulated ATPase in red-cell ghosts (135)831
Wintermans, J,F.G.M.
— and De Mots, A.
Spectrophotometric characteristics of chlorophyll a and b and their pheophytins in ethanol (109)448
Wintrobe, M.M., see Lewis, M.
Winzor, D.J.
Estimation of molecular weights from zonal ultracentrifugal data (133)171
— and Nichol, L.W.
Effects of concentration dependence in gel filtration (104)1
Wiqvist, N., see Bird, C.E.; see Pasqualini, J.R.; see Pion, R.J.
Wit, J.G., see Mulder, A.H.
Withaar, J., see Polglase, W.J.
Witkop, B., see Schöberl, A.
Witnauer, L.P., see Kahn, L.D.
Witt, I.
—, Kronau, R. und Holzer, H.
Repression von Alkoholdehydrogenase, Malatdehydrogenase, Isocitratlyase und Malatsynthetase in Hefe durch Glucose (118)522;
Isoenzyme der Malatdehydrogenase und ihre Regulation in Saccharomyces cerevisiae (128)63
Wittels, B., see Bressler, R.
Wittenberg, B.A.
—, Okazaki, T. and Wittenberg, J.B.
Hemoglobin of ascaris perienteric fluid. I. Purification and spectra (111)485
—, Wittenberg, J.B., Stolzberg, S. and Valenstein, E.
A novel reaction of hemoglobin in invertebrate tissues. II. Observations on molluscan muscle (109)530
—, see Chiancone, E.; see Okazaki, T.; see Wittenberg, J.B.
Wittenberg, J.B.
—, Brown, P.K. and Wittenberg, B.A.
A novel reaction of hemoglobin in invertebrate tissues. I. Observations on annelid and molluscan nerves (109)518
—, see Chiancone, E.; see Okazaki, T.; see Wittenberg, B.A.
Wittenberger, C.L.
— and Haaf, A.S.
Isolation of NAD-dependent and NAD-independent lactate dehydrogenases from extracts of Butyribacterium rettgeri (122)393
Wittles, B.
— and Hochstein, P.
The effect of primaquine on lecithin metabolism in human erythrocytes (125)594
Wittorf, J.H., see Ullrich, J.
Wlodawer, P.
—, Parsons, D.F., Williams, G.R. and Wojtczak, L.
Morphological changes in isolated rat-liver mitochondria during swelling and contraction (128)34
Wöber, W.
— und Thiele, O.W.
Trennung phosphorhaltiger Abbauprodukte von Phosphatiden auf Celluloseplatten (116)163
Woessner, Jr., J.F.
—, Bashey, R.I. and Boucek, R.J.
Collagen development in heart and skin of the chick embryo (140)329
Wohlhieter, J.A.
—, Falkow, S. and Citarella, R.V.
Purification of episomal DNA with cellulose nitrate membrane filters (129)475
Wohltmann, H.J.
— and Narahara, H.T.
Iability of anti-insulin serum to neutralize insulin after the hormone has become bound to muscle (135)173
Wojcik, S.J., see Ralph, R.K.
Wojnar, R.J., see Kammen, H.O.
Wojtczak, L., see Bogucka, K.; see Wlodawer, P.
Wolcott, J.H.
— and Ross, C.
Orotidine-5'-phosphate decarboxylase from higher plants (122)532
Wold, F., see Hartman, F.C.
Wolf, F.T., see Bartels, P.G.
Wolfenden, R.
— and Spence, G.
Derepression of phosphomonoesterase and phosphodiesterase activities in Aerobacter aerogenes (146)296
Wolfenstein, C.E.M., see Santomé, J.A.
Wolff, J., see Salvatore, G.
Wolfgram, F.
The amino acid compositions of some non-neutral proteolipid proteins (147)383
Wollenberger, A., see Kleitke, B.; see Krause, E.-G.
Wolman, M.
Myelin breakdown in vitro (102)261
— and Wiener, H.
Structure of the myelin sheath as a function of concentrations of ions (102)269
Wolman, Y., see Lapidot, Y.
Wolmark, N., see Brockerhoff, H.
Wong, D.G., see Elatter, T.M.A.
Wong, E.
Flavonoid biosynthesis in Cicer arietinum (111)358
Wong, W., see McKee, R.W.
Wood, J.B.J.
—, Nichols, B.W. and James, A.T.
Lipids and fatty acid metabolism of photosynthetic bacteria (106)261
Wood, J.L., see Szczepkowski, T.W.
Woodbury, D.M., see Kemp, J.W.
Woods, K.R.
— and Wang, K.-T.
Separation of dansyl-amino acids by polamide layer chromatography (133)369
Woodward, D.O., see Munkres, K.D.
Wool, I.G.
—, Castles, J.J. and Moyer, A.N.
Regulation of amino acid accumulation in isolated rat diaphragm. Effect of puromycin and insulin (107)333
—, see Rampersad, O.R.
Worcel, A.
Thermodynamic properties of an allosteric

transition (113)178
Worrall, J.
— and Steven, F.S.
The depolymerising action of pepsin on collagen. Column fractionation of the component polypeptide chains (130)184
Wostmann, B.S., see Kellogg, T.F.
Woychik, J.H.
— and Huebner, F.R.
Isolation and partial characterization of wheat γ-gliadin (127)88
Wren, A.
— and Massey, V.
Lipoyl dehydrogenase from Saccharomyces cerevisiae. I, Purification and some properties (110)329;
Lipoyl dehydrogenase from Saccharomyces cerevisiae. II. Kinetic and inhibitor studies (122)436
Wright, A.
— and Robbins, P.W.
Enzymatic synthesis of uridine diphosphate [^{14}C]glucose (104)594
Wright, W.R.
— and Tove, S.B.
Metabolism of 1-palmitoyl diolein and 3-palmitoyl diolein by adipose tissue (137)54
Wu, C.H., see Penhos, J.C.
Wu, S.-M.L., see Faust, R.G.; see Parkins, F.M.
Wu, Y.V.
—, Cluskey, J.E. and Sexson, K.R.
Effect of ionic strength on the molecular weight and conformation of wheat gluten proteins in 3 M urea solutions (133)83
Wulff, K., see Mecke, D.
Wyatt, G.R.
— and Linzen, B.
Metabolism of RNA in cecropia silkmoth pupae in diapause, during development and after injury (103)588
Wyckoff, R.W.G.
—, McCaughey, W.F. and Doberenz, A.R.
The amino acid composition of proteins from desert-dried bone (107)389
Wyman, J., see Antonini, E.; see Chiancone, E.

Y

Yabu, K.
The uptake of D-glutamic acid by Mycobacterium avium (135)181
Yagi, K.
—, Harada, M. and Kotaki, A.
Trinitrophenylation of D-amino-acid oxidase (122)182
—, Okamura, K., Naoi, M., Sugiura, N. and Kotaki, A.
Mechanism of enzyme action. II. Characterization of the purple intermediate in the anaerobic reaction of D-amino-acid oxidase with D-alanine (146)77
Yajima, H.
—, Kawasaki, K., Okada, Y. and Lande, S.
Studies on peptides. V. Color-lightening action of histidylphenylalanylarginyl-5-methoxytryptamine on frog skin in vitro (107)141
—, Kubo, K., Kinomura, Y. and Lande, S.
Studies on peptides. XI. The effect on melanotropic activity of altering the arginyl residue in L-histidyl-L-phenylalanyl-L-arginyl-L-tryptophylglycine (127)545
—, see Hano, K.
Yamada, E.W.
Phosphorolysis of uridine and deoxyuridine by regenerating rat liver after cytidine administration (149)299
Yamada, H., see Muraoka, S.
Yamada, R.
—, Kato, T., Shimizu, S. and Fukui, S.
Reduction of cobalt atom of corrinoid compounds by alkali treatment (117)13
—, Shimizu, S. and Fukui, S.
Factors affecting the anaerobic photolysis of the cobalt–carbon bond of cobalt-ethylcobalamin (124)195;
The formation of vitamin B_{12s} by anaerobic photolysis of cobalt-alkylcobalamins (124)197
Yamada, S.
— and Itano, H.A.
Phenanthrenequinone as an analytical reagent for arginine and other monosubstituted guanidines (130)538
Yamada, T.
Demonstration of preferential inhibition of net synthesis 23-S RNA in growing bacteria by actinomycin S (108)158
Yamagami, S.
—, Fritz, R.R. and Rappoport, D.A.
Biochemistry of the developing rat brain. VII. Changes in the ribosomal system and nuclear RNA's (129)532
Yamagata, T.
—, Kawamura, Y. and Suzuki, S.
Substrate specificity of two separate chondrosulfatases in Proteus vulgaris (115)250
Yamaguchi, K.
—, Shimoyama, M. and Gholson, R.K.
Measurements of tryptophan pyrrolase in vivo: Induction and feedback inhibition (146)102
Yamaguchi, T.
—, Tamura, G. and Arima, K.
A method for obtaining cytochrome c from Bacillus megaterium and Bacillus subtilis (124)413;
Properties of protoplast-bursting factor, substance isolated from pig pancreas (133)134
—, see Arima, T.
Yamamoto, G., see Utsumi, K.
Yamamoto, H.Y.
—, Chang, J.L. and Aihara, M.S.
Light-induced interconversion of violaxanthin and zeaxanthin in New Zealand spinach leaf segments (141)342
— and Chichester, C.O.
Dark incorporation of $^{18}O_2$ into antheraxanthin by bean leaf (109)303
Yamamoto, M., see Haga, T.
Yamamoto, O., see Morimoto, T.
Yamamoto, S., see Morimoto, T.
Yamamura, Y., see Hayashi, A.; see Shimizu, A.; see Suzuki, T.
Yamanaka, H.
—, De Klerk, H. and Kamen, M.D.
Highly purified cytochromes c derived from the diatom Navicula pelliculosa (143)416
Yamanaka, T.
— and Kamen, M.D.
Electron transfer components in the photosynthetic system of the diatom Navicula pelliculosa (112)436;
An NADP reductase, an NADH–dye reductase and a non-haem iron protein isolated from a facultative photoheterotroph, Rhodopseudomonas palustris (131)317;
Purification and some properties of cytochrome c derived from the marine worm Dendrostomum zostericolum (143)425
Yamane, T.
—, Shimizu, S. and Fukui, S.
Effect of light-irradiation and adenosine on the activity of a dioldehydratase-requiring cobamide coenzyme (110)616
Yamano, T., see Aki, K.; see Ichikawa, Y.; see Watari, H.
Yamano, Y., see Miyake, Y.
Yamasaki, H., see Muraoka, S.
Yamasaki, M.
— and Arima, K.
Regulation of intracellular ribonuclease of Bacillus subtilis by ATP and ADP (139)202
Yamashita, J.
—, Yoshimura, S., Matuo, Y. and Horio, T.
Relationship between photosynthetic and oxidative phosphorylations in chromatophores from light-grown cells of Rhodospirillum rubrum (143)154
Yamauchi, A., see Kimizuka, H.
Yamauchi, F., see Yosizawa, Z.
Yamazaki, I.
— and Ohnishi, T.

One-electron transfer reactions in biochemical systems. I. Kinetic analysis of the oxidation–reduction equilibrium between quinol–quinone and ferro–ferricytochrome c (112)469
— and Yokota, K.
Analysis of the conditions causing the oscillatory oxidation of NADH by horseradish peroxidase (132)310
—, see Yokota, K.
Yang, C.C.
The disulfide bonds of cobrotoxin and the relationship to lethality (133)346
—, Chang, C.C. and Wei, H.C.
Studies on fluorescent cobrotoxin (147)600
Yang, C.S.
— and McCormick, D.B.
Substrate specificity of riboflavin hydrolase from Pseudomonas riboflavina (132)511
Yang, P.C.
—, Bock, R.M., Hsu, R.Y. and Porter, J.W.
Physicochemical studies of fatty acid synthetase. A multienzyme complex from pigeon liver (110)608
Yankofsky, S., see Katchalski, E.
Yankus, C.A., see Bellin, J.S.
Yano, I.
— and Kusunose, M.
Propionate incorporation into mycocerosic acid by resting cells of Mycobacterium tuberculosis var. bovis (116)593
Yano, Y., see Parson, D.F.; see Wada, O.
Yarbro, J.W.
Relationship of histone synthesis to DNA synthesis in mouse ascites tumor 6C3HED (145)531
Yarger, K.A., see Jaakonmaki, P.I.
Yaron, A.
— and Berger, A.
Multi-chain polyamino acids containing glutamic acid, aspartic acid and proline (107)307
Yashphe, J.
—, Rosenberger, R.F., Shilo, M. and Schwartz, L.
The loss of meso-tartrate dehydratase activity from induced cells of pseudomonads (146)560
Yasuda, D.M., see Mitoma, C.
Yasuda, T., see Yoneyama, Y.
Yasui, T., see Fukazawa, T.
Yasunobu, K.T., see Kunimitsu, D.K.
Yeh, Y-C.
— and Greenberg, D.M.
Purification and properties of N^5,N^{10}-methylenetetrahydrofolate dehydrogenase of calf thymus (105)279
Yen, T.T.T.
— and Glassman, E.
Electrophoretic variants of xanthine dehydrogenase in Drosophila melanogaster. II. Enzyme kinetics (146)35
Yip, C.C.
Properties of a peroxidase purified from beef thyroid tissues (128)262
— and Hadley, L.D.
The iodination of tyrosine by myeloperoxidase and beef thyroids. The possible involvement of free radicals (122)406
Yoch, D.C., see Patil, R.B.
Yoda, A., see Hokin, L.E.
Yogo, Y., see Natori, S.
Yokota, K.
— and Yamazaki, I.
Reaction of peroxidase with NADH and NADPH (105)301
—, see Yamazaki, I.
Yokoyama, A., see Zilversmit, D.B.
Yolles, R.S.
— and Freeman, G.
Studies on the deproteinization of DNA (138)506
Yon, J., see Béchet, J-J.; see Chevallier, J.
Yoneda, M., see Uchida, T.
Yoneyama, Y.
—, Tamai, A., Yasuda, T. and Yoshikawa, H.
Iron-chelating enzyme from rat liver (105)100
Yorifuji, T., see Soda, K.
Yoshida, A.
Structural and serological similarity of three dehydrogenases of Bacillus subtilis (105)70; Changes in the optical rotatory dispersion induced by the dilution inactivation of dehydrogenases (147)39
Yoshida, E.
— and Noda, H.
Isolation and characterization of collagenase I and II from Clostridium histolyticum (105)562
Yoshida, F., see Ichishima, E.
Yoshida, H.
—. Izumi, F. and Nagai, K.
Carbamylphosphate, a preferential substrate of K^+-dependent phosphatase (120)183
—, see Nagai, K.
Yoshida, M.
—, Furuichi, Y., Ukita, T. and Kaziro, Y.
The effect of cyanoethylation on codon recognition of yeast tRNA containing inosine (149)308
— and Ukita, T.
Pseudouridine residues resistant to cyanoethylation in yeast tRNA (123)214
—, see Sekiya, T.
Yoshikawa, H., see Yoneyama, Y.
Yoshikawa-Fukada, M.
The nature of the two rapidly labeled RNA components of animal cells in culture (123)91; The intermediate state of ribosome formation in animal cells in culture (145)651
—, Fukada, T. and Kawade, Y.
Characterization of rapidly labeled RNA of animal cells in culture (103)383
Yoshimura, S., see Yamashita, J.
Yoshinaga, M.
—, Tasaki, I. and Hayashi, H.
Purification of permeability factors mediating increased vascular response in cutaneous Arthus-type inflammation (127)172
—, see Tasaki, I.
Yoshino, M.
—, Ogasawara, N., Suzuki, N. and Kotake, Y.
Regulation of AMP nucleosidase in Azotobacter vinelandii (146)620
Yosizawa, Z.
Enzymic degradation of ω-heparin (whale heparin) (141)600
—, Kotoku, T., Yamauchi, F. and Matsuno, M.
Stability of the biological activities of

Yosizawa, Z. (continued)
heparins to mild acid treatment (141)358
—, Sato, T. and Schmid, K.
Hydrazinolysis of α_1-acid glycoprotein (121)417
Young, I.G.
—, Cox, G.B. and Gibson, F.
2,3-Dihydroxybenzoate as a bacterial growth factor and its route of biosynthesis (141)319
—, Jackman, L.M. and Gibson, F.
2,3-Dihydro-2,3-dihydroxybenzoic acid: An intermediate in the biosynthesis of 2,3-dihydroxybenzoic acid (148)313
Young, J.A.
— and Packer, L.
On the occurrence of a contractile protein in spinach chloroplasts (126)399
Young, M.D.
—, Phillips, G.O. and Balazs, E.A.
Polyanions and their complexes. I. Thermodynamic studies of heparin–azure A complexes in solution (141)374
—, see Balazs, E.A.
Young, R.E., see Hobson, G.E.
Yu, C.-T.
— and Hirsh, D.
The stimulatory effect of NH_4^+ or K^+ on the activity of leucyl-tRNA synthetase from Escherichia coli (142)149
— and Rappaport, H.P.
Multiple fractions of leucyl-tRNA synthetase activity from Escherichia coli (123)134
Yuasa, S.
—, Matsuzaki, K. and Nozu, K.
Ribosome-bound RNA polymerase of Escherichia coli (145)637
—, see Nozu, K.
Yubisui, T.
—, Mizushima, H., Sekuzu, I. and Okunuki, K.
Purification and properties of cytochrome a of Candida krusei (118)442
Yudkin, J., see Cohen, A.M.
Yudkin, M.D.
Amino acid incorporation in Bacillus megaterium treated with actinomycin (103)705
—, see Mehdi, Q.
Yue, K.T.N.
—, Russell, P.J. and Mulford, D.J.
Inability of rat-liver mitochondria to oxidize betaine aldehyde (118)191;
Uncoupling effect of amino compounds on choline oxidation in vitro (128)187
Yukioka, M.
— and Winnick, T.
Biosynthesis of malformin in washed cells of Aspergillus niger (119)614
Yumoto, S., see Wakabayashi, K.
Yun, J.
— and Parker, Jr., C.J.
Effect of carnosine on myofibrillar ATPase activity (110)212
Yung, K.H., see Mann, J.D.
Yunis, A.A.
— and Arimura, G.K.
Enzymes of glycogen metabolism in white blood cells. II. Activation and inactivation of glycogen phosphorylase of rat chloroma (118)325;
Enzymes of glycogen metabolism in white blood cells. III. Heterogeneity of glycogen phosphorylase from rat chloroma (118)335
Yura, T., see Igarashi, K.; see Okamoto, T.
Yurkowski, M.
— and Brockerhoff, H.
Fatty acid distribution on triglycerides determined by deacylation with methyl magnesium bromide (125)55
Yurowitzki, Yu.G., see Milman, L.S.

Z

Zachau, H.G.
Chromatographie von löslicher RNA's und deren Spaltprodukten an Sephadex (108)355
—, see Gottschling, H.; see Melchers, F.; see Thiebe, R.
Zachman, R.D., see Dunagin, Jr., P.E.
Zadražil, S.
—, Fučik, V., Bartl, P., Šormová, Z. and Šorm, F.
The structure of DNA from Escherichia coli cultured in the presence of 5-azacytidine (108)701
Zagalak, B., see Bartosiński, B.
Zagrebelny, S.N.
— and Konre, D.G.
Preparation of tripeptidyl-sRNA and its stability towards alkaline hydrolysis and hydroxylaminolysis (114)407
Zahler, P.H.
— and Wallach, D.F.H.
Isolation of lipid-free plasma membrane proteins by gel filtration on Sephadex LH-20 using 2-chloroethanol–water as solvent (135)371
Zahn, H.
— und Lumper, L.
N_ϵ-2,4-Dinitrophenyl-N_ϵ-(2-Amino-2-Carboxyäthyl)-L-Lysin im Hydrolysat des alkalisch denaturierten und dinitrophenylierten Rinderserumalbumins (121)173
Zak, R., see Rampersad, O.R.
Žak, T., see Cygan, Z.
Zakim, D.
—, Pardini, R.S., Herman, R.H. and Sauberlich, H.E.
The relation of hepatic α-glycerophosphate concentration to lipogenesis in rat liver (137)179;
Mechanism for the differential effects of high carbohydrate diets on lipogenesis in rat liver (144)242
Zalkin, H.
Control of aromatic amino acid biosynthesis in Salmonella typhimurium (148)609
Zamecnik, P.C., see Haines, J.A.
Zamudio, I.
— and Canessa, M.
Nicotinamide–adenine dinucleotide dehydrogenase activity of human erythrocyte membranes (120)165
Zancan, G.T.
—, Krisman, C.R., Mordoh, J. and Leloir, L.F.
Phosphate transfer from adenosine diphosphate phosphoglycerate and 2,3-diphosphoglycerate (110)348
Zanen, J.
— et Pechere, J.F.
Action de la 8-azaguanine sur la synthèse de pénicillinase chez Bacillus cereus (123)172
Zanetti, G., see Forti, G.
Zarlengo, M.H.
— and Schultz, S.G.
Cation transport and metabolism in Streptococcus fecalis (126)308
Zatti, M.
— and Rossi, F.
Relationship between glycolysis and respiration in surfactant-treated leucocytes (148)553
—, see Rossi, F.
Zaugg, W.S., see Clayton, R.K.
Zavodsky, P., see Bolotina, I.A.
Zech, R.
—, Engelhard, H. und Erdmann, W.D.
Reaktionen von Pyridinium oximen mit dem Alkylphosphat Dimethoat und seinen Derivaten: Wirkung auf Cholinesterasen (128)363
Zeegen, P., see Solomon, L.
Zeitlin-Beck, R., see Mager, J.
Žemlička, J., see Rychlík, I.
Zerner, B., see Blakeley, R.L.
Zetsche, K.
Regulation der UDPglucose 4-Epimerase Synthese in kernhaltigen und kernlosen Acetabularien (124)332
Zetterqvist, Ö.
Isolation of [1-^{32}P]phosphohistidine from rat-liver cell sap after incubation with [^{32}P]-ATP (136)279;
Further studies on acid-labile [^{32}P]phosphate bound to high-molecular weight material from rat-liver cell sap after incubation with [^{32}P]ATP (141)533;
Studies on acid-labile [^{32}P]phosphate in different chromatographic fractions of high-molecular weight material from rat-liver cell sap after incubation with [^{32}P]ATP (141)540
— and Engström, L.
Isolation of [^{32}P]phosphohistidine from different rat-liver cell fractions after incubation with [^{32}P]ATP (113)520;
Isolation of N-ϵ-[^{32}P]phosphoryl-lysine from rat-liver cell sap after incubation with [^{32}P]-ATP (141)523
Zeyl, Z.
—, Rosmus, J. and Bump, S.
Studies on the structure of collagen. II. The nature of the N- and C-terminals in enzyme treated and untreated collagen (140)515
Zeylemaker, W.P.
— and Slater, E.C.
The inhibition of succinate dehydrogenase by oxaloacetate (132)210
Zhdanov, G.L., see Budowsky, E.I.
Zhestkova, I.M., see Molotkovsky, Y.G.
Ziegler, H.
— und Ziegler, I.
Die lichtinduzierte Aktivitätssteigerung der NADP-abhängigen Glycerinaldehyd-3-phosphat-Dehydrogenase. IV. Der Einfluss auf die Photosynthese-intensität (126)449
Ziegler, I., see Ziegler, H.
Zile, M.H.
—, Emerick, R.J. and DeLuca, H.F.
Identification of 13-cis retinoic acid in tissue

Zile, M.H. (continued)
extracts and its biological activity in rats (141)639
Zillig, W., see Priesz, H.
Zilliken, F., see Schoenmakers, J.G.G.
Zilversmit, D.B.
—, Sisco, Jr., P.H. and Yokoyama, A.
Size distribution of thoracic duct lymph chylomicrons from rats fed cream and corn oil (125)129
Zimmer, Ch.
—, Triebel, H. and Thrum, H.
Interaction of streptothricin and related antibiotics with nucleic acids (145)742
Zimmerman, E.F.
—, Holler, B.W. and Pearson, G.D.
Azaguanine inhibition of protein synthesis. II. Effects of poly U in Bacillus cereus (134)402
Zimmerman, L.N., see Hammel, J.M.
Zingher, S., see Spitnik-Elson, P.
Zinner, K., see Cilento, G.
Zink, M., see Bernhardt, W.
Zipper, H., see Person, P.
Zipper, J., see Ferrando, G.
Zirô, S., see Kobata, A.
Zito, R., see Tentori, L.
Zmigrod, A., see Lamprecht, S.
Zobel, C.R.
An electron-microscopic investigation of heavy meromyosin (140)222
— and Roe, J.Y.K.
Positive staining of protein molecules for electron microscopy (133)157
Zolotor, L.
— and Engler, R.
Equilibrium centrifugation of DNA, RNA and poliovirus in density gradients of cesium oxalate and cesium acetate (145)52
Zomzely, C.E.
—, Roberts, S., Brown, D.M. and Rapaport, D.
Isolation of 55-S ribonucleoprotein particles with amino acid incorporating activity (103)529
Zopf, D., see Kinsky, S.C.
Zubay, G., see Lederman, M.; see Roy, A.K.
Zuch, A., see Buluk, K.
Zucker, W.V.
— and Schulman, H.M.
The synthesis of globin dimers by a reticulocyte cell-free system (138)400
Zürcher, C., see Loos, J.A.
Zvilichovsky, B., see Blauer, G.
Zweers, A., see Bloemendal, H.; see Schoenmakers, J.G.G.
Zweig, G.
—, Shavit, N. and Avron, M.
Diquat (1,1'-ethylene-2,2'-dipyridulium dibromide) in photoreactions of isolated chloroplasts (109)332
—, see Cho, D.H.; see Kaneshiro, T.
Zyk, N.
— and Citri, N.
The interaction of penicillinase with penicillins. V. Conformative response constants (146)219

COPYRIGHT © 1968 BY
ELSEVIER PUBLISHING COMPANY, AMSTERDAM
PRINTED IN THE NETHERLANDS